

Appendix K

Conceptual Habitat Plan

ELVERTA SPECIFIC PLAN

Drainage Corridors B, C, & D

CONCEPTUAL HABITAT DEVELOPMENT PLAN

Elverta, California

CLIENT:

The RCH Group

Jeff Pemstein, Project Manager
1640 Lead Hill Blvd., Suite 220
Roseville, CA 95661
(916) 782-4427

INDEX TO DRAWINGS

REVISED: JANUARY 14, 2011
SECOND REVISION: OCTOBER 7, 2011

SITE LOCATION

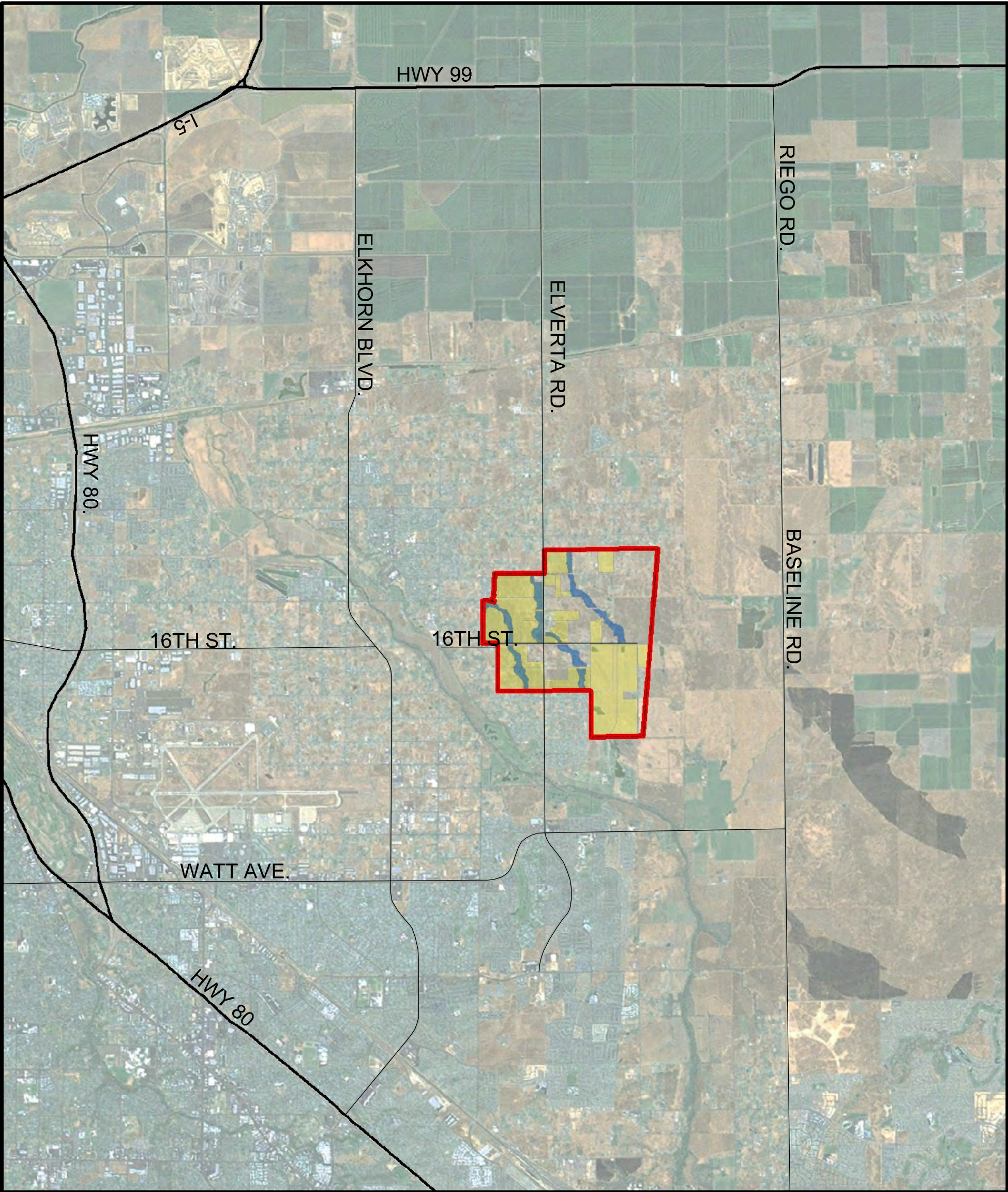
SHEET L0.1 COVER SHEET
SHEET L0.2 OVERALL HABITAT DEVELOPMENT PLAN: CORRIDORS B, C, & D

SHEET L1.1 CORRIDOR B HABITAT DEVELOPMENT PLAN (STATION 60+55 - 76+43)
SHEET L1.2 CORRIDOR B HABITAT DEVELOPMENT PLAN (STATION 43+39 - 60+55)
SHEET L1.3 CORRIDOR B HABITAT DEVELOPMENT PLAN (STATION 26+58 - 43+39)
SHEET L1.4 CORRIDOR B HABITAT DEVELOPMENT PLAN (STATION 10+00 - 26+58)

SHEET L2.1 CORRIDOR C HABITAT DEVELOPMENT PLAN (STATION 113+58 - 132+17)
SHEET L2.2 CORRIDOR C HABITAT DEVELOPMENT PLAN (STATION 100+31 - 113+58)
SHEET L2.3 CORRIDOR C HABITAT DEVELOPMENT PLAN (STATION 84+79 - 100+31)
SHEET L2.4 CORRIDOR C HABITAT DEVELOPMENT PLAN (STATION 65+33 - 82+96)
SHEET L2.5 CORRIDOR C HABITAT DEVELOPMENT PLAN (STATION 47+30 - 65+33)

SHEET L3.1 CORRIDOR D HABITAT DEVELOPMENT PLAN (STATION 62+18 - 78+55)
SHEET L3.2 CORRIDOR D HABITAT DEVELOPMENT PLAN (STATION 44+47 - 62+18)
SHEET L3.3 CORRIDOR D HABITAT DEVELOPMENT PLAN (STATION 28+20 - 44+47)
SHEET L3.4 CORRIDOR D HABITAT DEVELOPMENT PLAN (STATION 12+00 - 28+20)

SHEET L4.1 CORRIDORS B, C, & D PLANT PALETTES
SHEET L4.2 CONSTRUCTION NOTES
SHEET L4.3 CONCEPTUAL SECTIONS AND DETAILS
SHEET L4.4 CONCEPTUAL SECTIONS AND DETAILS CONT.



VICINITY MAP
N.T.S.

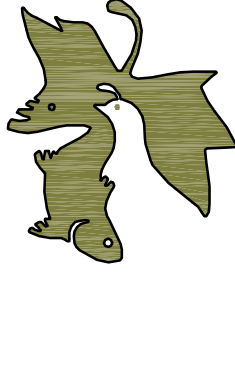
SHEET NO: L0.1	CHECKED BY: RS	DATE: 10.7.11
	ORIGINAL DATE: 10.28.10	DRAWN BY: LP/MAH
	REVISION:	DATE:
	1. Vision Quality Drain and Trail Option	1.14.11
1 of 19	2. Corridor Roadways	10.7.11

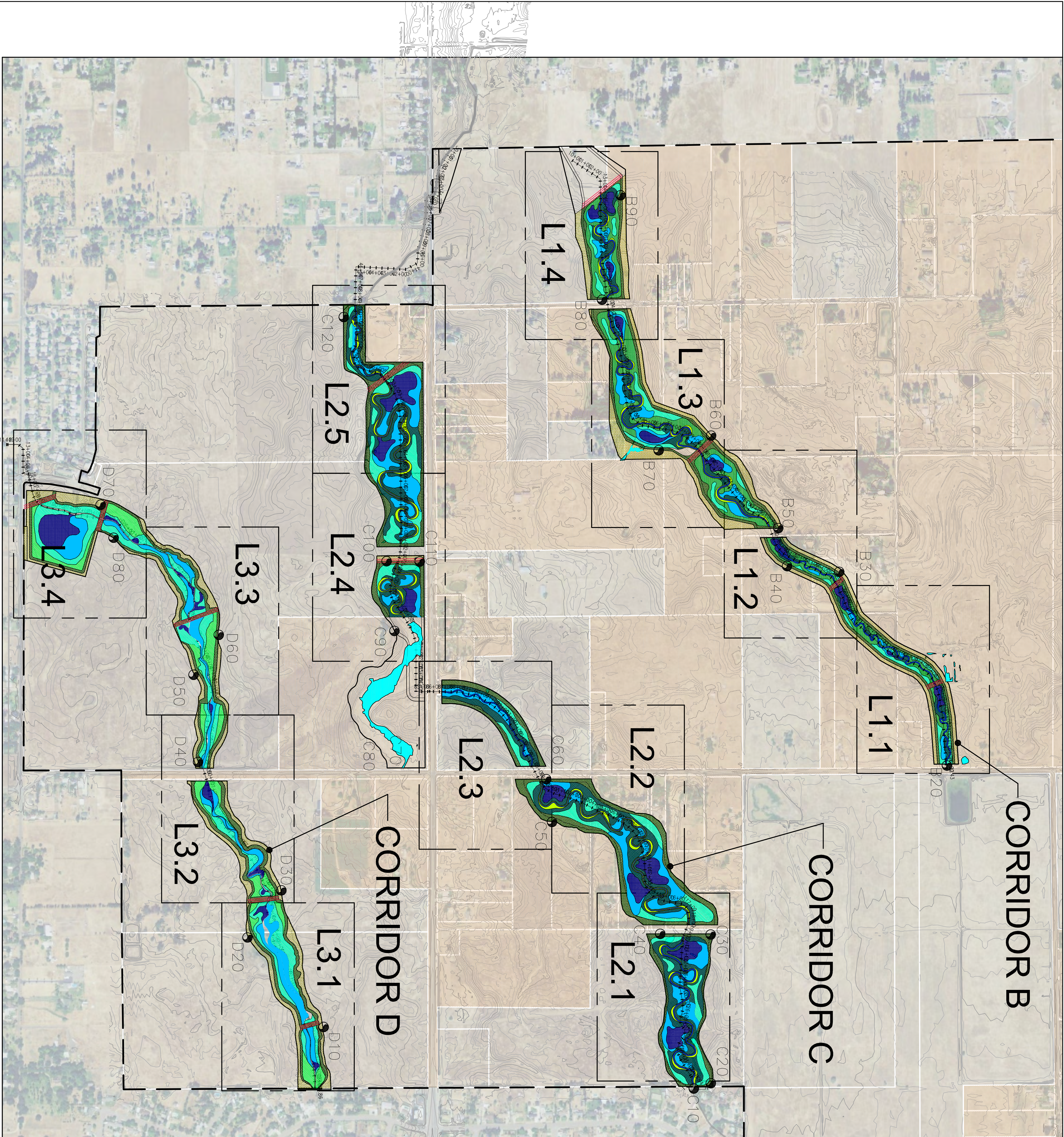
SHEET TITLE:	ELVERTA DRAINAGE CORRIDORS B, C, & D CONCEPTUAL HABITAT DEVELOPMENT PLAN Elverta, California COVER SHEET
--------------	---

CLIENT:	The RCH Group Jeff Pemstein, Project Manager 1640 Lead Hill Blvd., Suite 220 Roseville, CA 95661 TEL 916.782.4427
---------	---

NOT FOR CONSTRUCTION

PREPARED BY:	RESTORATION RESOURCES
	3888 CINCINNATI AVENUE ROCKLIN, CA 95765 TEL 916.408.2990 FAX 916.408.2999 www.restoration-resources.net CA LIC. #429252





CORRIDOR B

HABITAT AREA BY PROPERTY TYPE			
HABITAT TYPE	PARTICIPATING PROPERTY AREA (a)	NONPARTICIPATING PROPERTY AREA (a)	COMBINED HABITAT TOTAL (a)
COTTONWOOD BRUSH	0	3.54	3.54
GRASSLAND CORROD BANK	0	7.03	7.03
LOWWATER CHANNEL	0	1.54	1.54
LOWWATER WETLAND	0	1.50	1.50
BRUSH GRASSLAND	0	8.97	8.97
SEASONAL FRESHWATER WASH	0	2.07	2.07
SEASONAL WETLAND	0	3.16	3.16
WILLOW BRUSH	0	3.28	3.28
LAND GRASSLAND BUFFER	0	10.00	10.00

CORRIDOR C

HABITAT AREA BY PROPERTY TYPE			
HABITAT TYPE	PARTICIPATING PROPERTY AREA (a)	NONPARTICIPATING PROPERTY AREA (a)	COMBINED HABITAT TOTAL (a)
COTTONWOOD BRUSH	5.86	2.19	8.05
GRASSLAND CORROD BANK	6.38	4.30	10.68
LOWWATER CHANNEL	1.65	0.62	2.27
LOWWATER WETLAND	2.85	1.6	4.45
SEASONAL FRESHWATER WASH	3.32	1.53	4.85
SEASONAL WETLAND	7.65	3.04	10.69
WILLOW BRUSH	0.40	4.25	4.65
LAND GRASSLAND BUFFER	0.37	0	0.37

CORRIDOR D

HABITAT AREA BY PROPERTY TYPE			
HABITAT TYPE	PARTICIPATING PROPERTY AREA (a)	NONPARTICIPATING PROPERTY AREA (a)	COMBINED HABITAT TOTAL (a)
COTTONWOOD BRUSH	9.22	0	9.22
GRASSLAND CORROD BANK	7.68	0	7.68
LOW FLOW CHANNEL	0.68	0	0.68
OAK BRUSH	5.52	0	5.52
SEASONAL FRESHWATER WASH	2.19	0	2.19
SEASONAL WETLAND	6.15	0	6.15
LAND GRASSLAND BUFFER	6.83	0	6.83

COMBINED B + C + D

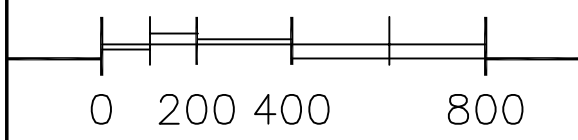
HABITAT AREA BY PROPERTY TYPE			
HABITAT TYPE	PARTICIPATING PROPERTY AREA (a)	NONPARTICIPATING PROPERTY AREA (a)	COMBINED HABITAT TOTAL (a)
COTTONWOOD BRUSH	14.83	6.28	21.11
GRASSLAND CORROD BANK	12.35	11.33	23.68
LOWWATER CHANNEL	2.85	2.16	5.01
LOWWATER WETLAND	5.52	2.67	8.19
OAK BRUSH	0	8.97	8.97
SEASONAL GRASSLAND	6.10	3.89	9.99
SEASONAL FRESHWATER WASH	7.65	6.20	13.85
SEASONAL WETLAND	10.40	7.51	17.91
WILLOW BRUSH	9.22	10.00	19.22
LAND GRASSLAND BUFFER	75.19	59.89	135.08

CORRIDOR D

NOTE:
STORM WATER SHALL BE TREATED PRIOR TO ENTERING THE DRAINAGE CORRIDORS AT EACH OUTFALL LOCATION. ALL PROPOSED OUTFALL LOCATIONS WILL BE ROCK ARMORED AND VEGETATED TO PREVENT EROSION AND DISSIPATE FLOWS. DETAIL 05/L4.4.

CORRIDOR D HABITAT DEVELOPMENT FEATURES

SYM.	DESCRIPTION	DETAIL
---	SPECIFIC PLAN BOUNDARY	--
---	PAGE BOUNDARIES	--
---	EXISTING CONTOUR (FT. INTERVAL)	--
---	NONPARTICIPANT PROPERTIES	--
---	PAGE EXTENTS / MATCHLINES	--
---	PROPOSED CORRIDOR BOUNDARY	--
●	PROPOSED OUTFALL LOCATIONS	05/L4.4

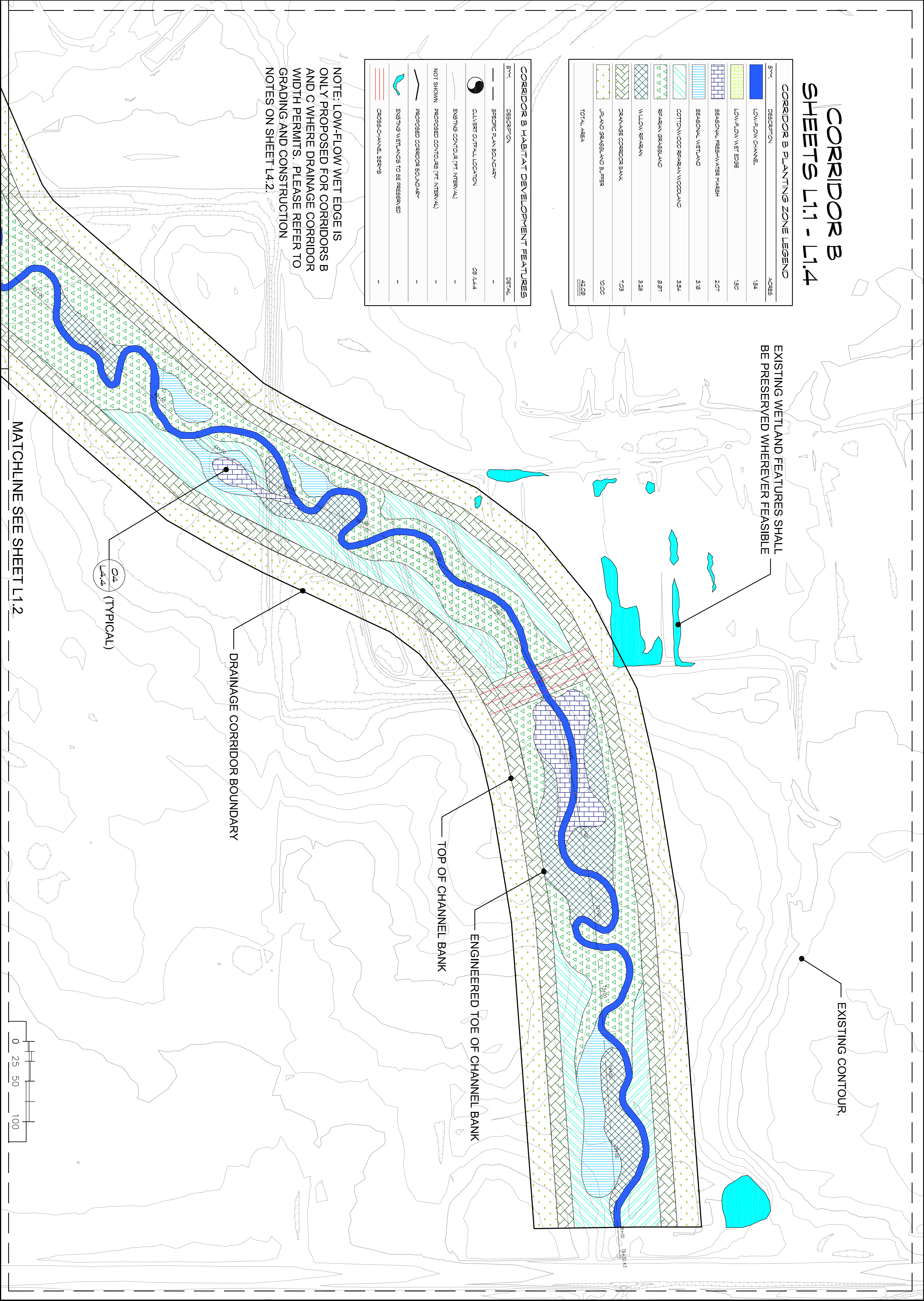


CORRIDOR B
SHEETS L1.1 - L1.4

CORRIDOR B PLANTING ZONE LEGEND	
SYM.	ACRES
	LOW-FLOW CHANNEL
	LOW-FLOW WET EDGE
	SEASONAL FRESHWATER MARSH
	SEASONAL WETLAND
	COTTONWOOD RIPARIAN WOODLAND
	RIPARIAN GRASSLAND
	WILLOW RIPARIAN
	DRAINAGE CORRIDOR BANK
	UPLAND GRASSLAND BUFFER
TOTAL AREA	42.02

CORRIDOR B HABITAT DEVELOPMENT FEATURES	
SYM.	DETAIL
	SPECIFIC PLAN BOUNDARY
	CLVERT OUTFALL LOCATION
	EXISTING CONTOUR (FT. INTERVAL)
	PROPOSED CONTOUR (FT. INTERVAL)
	PROPOSED CORRIDOR BOUNDARY
	EXISTING WETLANDS TO BE PRESERVED
	CROSS-CHANNEL SEWERS

NOTE: LOW-FLOW WET EDGE IS ONLY PROPOSED FOR CORRIDORS B AND C WHERE DRAINAGE CORRIDOR WIDTH PERMITS. PLEASE REFER TO GRADING AND CONSTRUCTION NOTES ON SHEET L4.2.



EXISTING WETLAND FEATURES SHALL BE PRESERVED WHEREVER FEASIBLE

EXISTING CONTOUR,

ENGINEERED TOE OF CHANNEL BANK

TOP OF CHANNEL BANK

DRAINAGE CORRIDOR BOUNDARY

C4 (TYPICAL)
L4.4

MATCHLINE SEE SHEET L1.2

SHEET NO: L1.1	CHECKED BY: RS DATE: 10.7.11	JOB NUMBER: 10029	
	ORIGINAL DATE: 10.28.10 DRAWN BY: LP/MAH		
	REVISION: DATE: BY:		
	Water Quality Drain and Trail Location: 1.14.11 L.1.1/MAH		
3 of 19	Combiner Roadside: 10.7.11 L.1.1/MAH		

NORTH

SCALE
1" = 50'

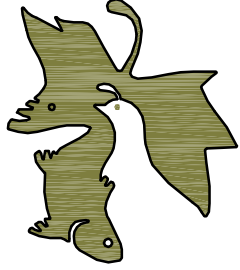
SHEET TITLE:
ELVERTA DRAINAGE CORRIDORS B, C, & D
CONCEPTUAL HABITAT DEVELOPMENT PLAN
Elverta, California

CORRIDOR B HABITAT DEVELOPMENT PLAN
(STA. 60+55 - 76+43)

CLIENT:
The RCH Group
Jeff Pernstein, Project Manager
1640 Lead Hill Blvd., Suite 220
Roseville, CA 95661
TEL 916.782.4427

**NOT FOR
CONSTRUCTION**

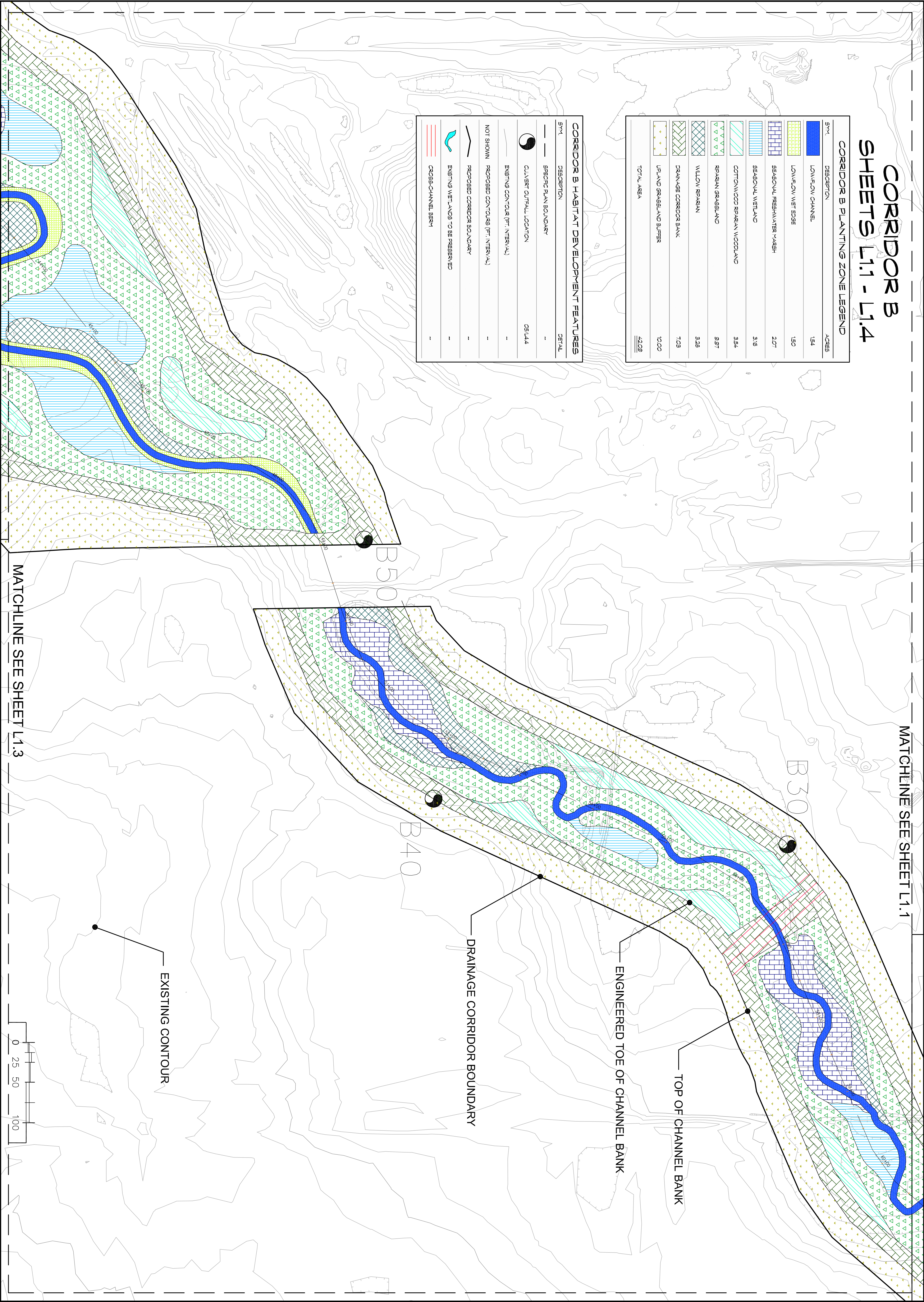
PREPARED BY:
**RESTORATION
RESOURCES**
3888 CINCINNATI AVENUE
ROCKLIN, CA 95765
TEL 916.408.2990
FAX 916.408.2999
www.restoration-resources.net
CA LIC. #429252



CORRIDOR B
SHEETS L1.1 - L1.4

CORRIDOR B PLANTING ZONE LEGEND	
SYM.	DESCRIPTION
	LOW-LOW CHANNEL
	LOW-LOW WET EDGE
	SEASONAL FRESHWATER MARSH
	SEASONAL WETLAND
	COTTONWOOD RIPARIAN WOODLAND
	RIPARIAN GRASSLAND
	WILLOW RIPARIAN
	DRAINAGE CORRIDOR BANK
	UPLAND GRASSLAND BUFFER
	TOTAL AREA
	42.09

CORRIDOR B HABITAT DEVELOPMENT FEATURES	
SYM.	DESCRIPTION
	SPECIFIC PLAN BOUNDARY
	CLAYVERT CULVERT LOCATION
	EXISTING CONTOUR (FT. INTERVAL)
	PROPOSED CONTOUR (FT. INTERVAL)
	PROPOSED CORRIDOR BOUNDARY
	EXISTING WETLANDS TO BE PRESERVED
	CROSS-CHANNEL BERM



MATCHLINE SEE SHEET L1.1

MATCHLINE SEE SHEET L1.3

EXISTING CONTOUR

DRAINAGE CORRIDOR BOUNDARY

ENGINEERED TOE OF CHANNEL BANK

TOP OF CHANNEL BANK

SHEET NO:	CHECKED BY: <u>RS</u> DATE: <u>10.7.11</u>
L1.2	ORIGINAL DATE: 10.28.10 DRAWN BY: LP/MAH JOB NUMBER: 10029
	REVISION: DATE: BY: L. Hines
4 of 19	Water Quality Drain and Trail Location 1.14.11 L. Hines
	Corridor Hecology 10.7.11 L. Hines

NORTH

SCALE
1" = 50'

SHEET TITLE:
ELVERTA DRAINAGE CORRIDORS B, C, & D
CONCEPTUAL HABITAT DEVELOPMENT PLAN
Elverta, California

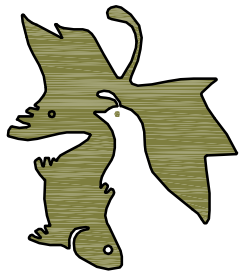
CORRIDOR B HABITAT DEVELOPMENT PLAN
(STA. 43+39 - 60+55)

CLIENT:

The RCH Group
Jeff Pernstein, Project Manager
1640 Lead Hill Blvd., Suite 220
Roseville, CA 95661
TEL 916.782.4427

NOT FOR
CONSTRUCTION

PREPARED BY:
**RESTORATION
RESOURCES**
3888 CINCINNATI AVENUE
ROCKLIN, CA 95765
TEL 916.408.2990
FAX 916.408.2999
www.restoration-resources.net
CA LIC. #429252



CORRIDOR B
SHEETS L1.1 - L1.4

MATCHLINE SEE SHEET L1.2

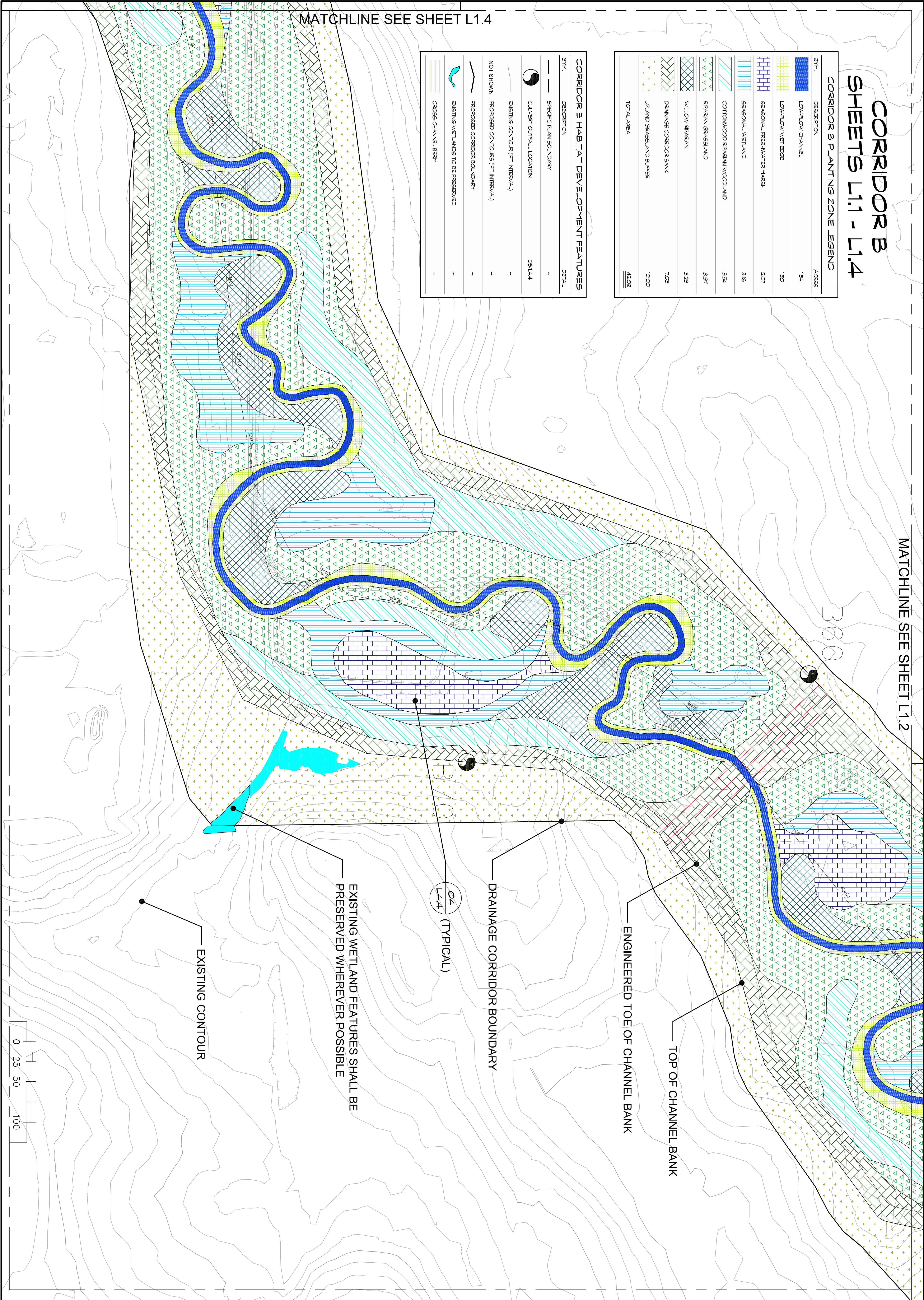
CORRIDOR B PLANTING ZONE LEGEND

SYM.	DESCRIPTION	ACRES
	LOW-FLOW CHANNEL	1.54
	LOW-FLOW WET EDGE	1.50
	SEASONAL FRESHWATER MARSH	2.07
	SEASONAL WETLAND	3.16
	COTTONWOOD RIPARIAN WOODLAND	3.54
	RIPARIAN GRASSLAND	9.97
	WILLOW RIPARIAN	3.25
	DRAINAGE CORRIDOR BANK	7.03
	UPLAND GRASSLAND BUFFER	10.00
	TOTAL AREA	42.09

CORRIDOR B HABITAT DEVELOPMENT FEATURES

SYM.	DESCRIPTION	DETAIL
	SPECIFIC PLAN BOUNDARY	--
	CLVERT OUTFALL LOCATION	05 L1.4
	EXISTING CONTOUR (FT. INTERVAL)	--
	PROPOSED CORRIDOR BOUNDARY	--
	PROPOSED CORRIDOR BOUNDARY	--
	EXISTING WETLANDS TO BE PRESERVED	--
	CROSS-CHANNEL BERRY	--

MATCHLINE SEE SHEET L1.4



SHEET NO:	CHECKED BY: <u>RS</u> DATE: <u>10.7.11</u>
L1.3	DRAWN BY: <u>LP/MAH</u> JOB NUMBER: <u>10029</u>
	REVISION: DATE: BY:
	Water Quality Study and Trail Option 1/14/11 L. Rippe
	Conduit Redesign 10/5/11 L. Rippe
5 of 19	

NORTH

SCALE
1" = 50'

SHEET TITLE:	ELVERTA DRAINAGE CORRIDORS B, C, & D CONCEPTUAL HABITAT DEVELOPMENT PLAN Elverta, California
	CORRIDOR B HABITAT DEVELOPMENT PLAN (STA. 26.+58 - 43.39)

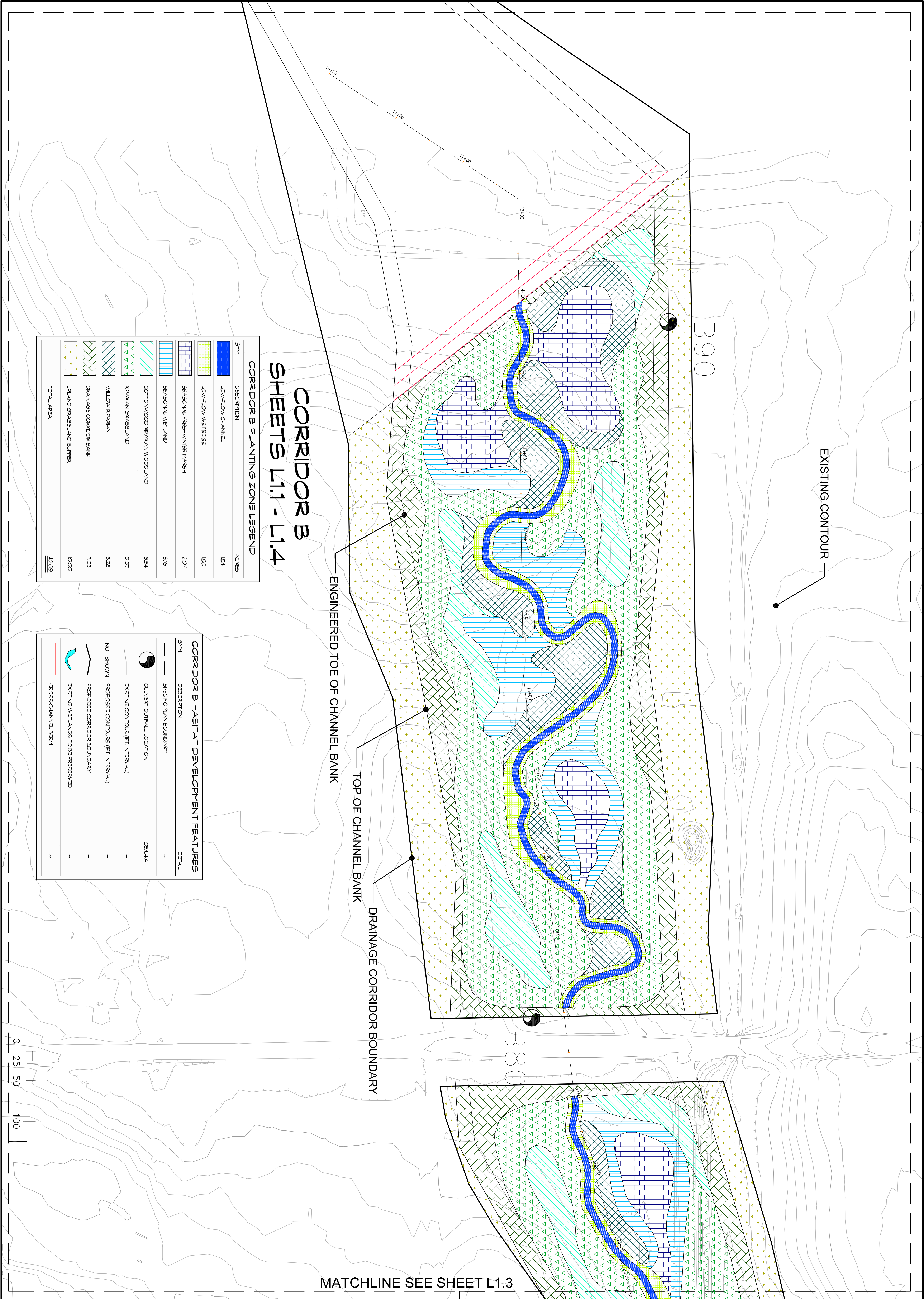
CLIENT:	The RCH Group Jeff Pernstein, Project Manager 1640 Lead Hill Blvd., Suite 220 Roseville, CA 95661 TEL 916.782.4427
---------	--

NOT FOR
CONSTRUCTION

PREPARED BY:

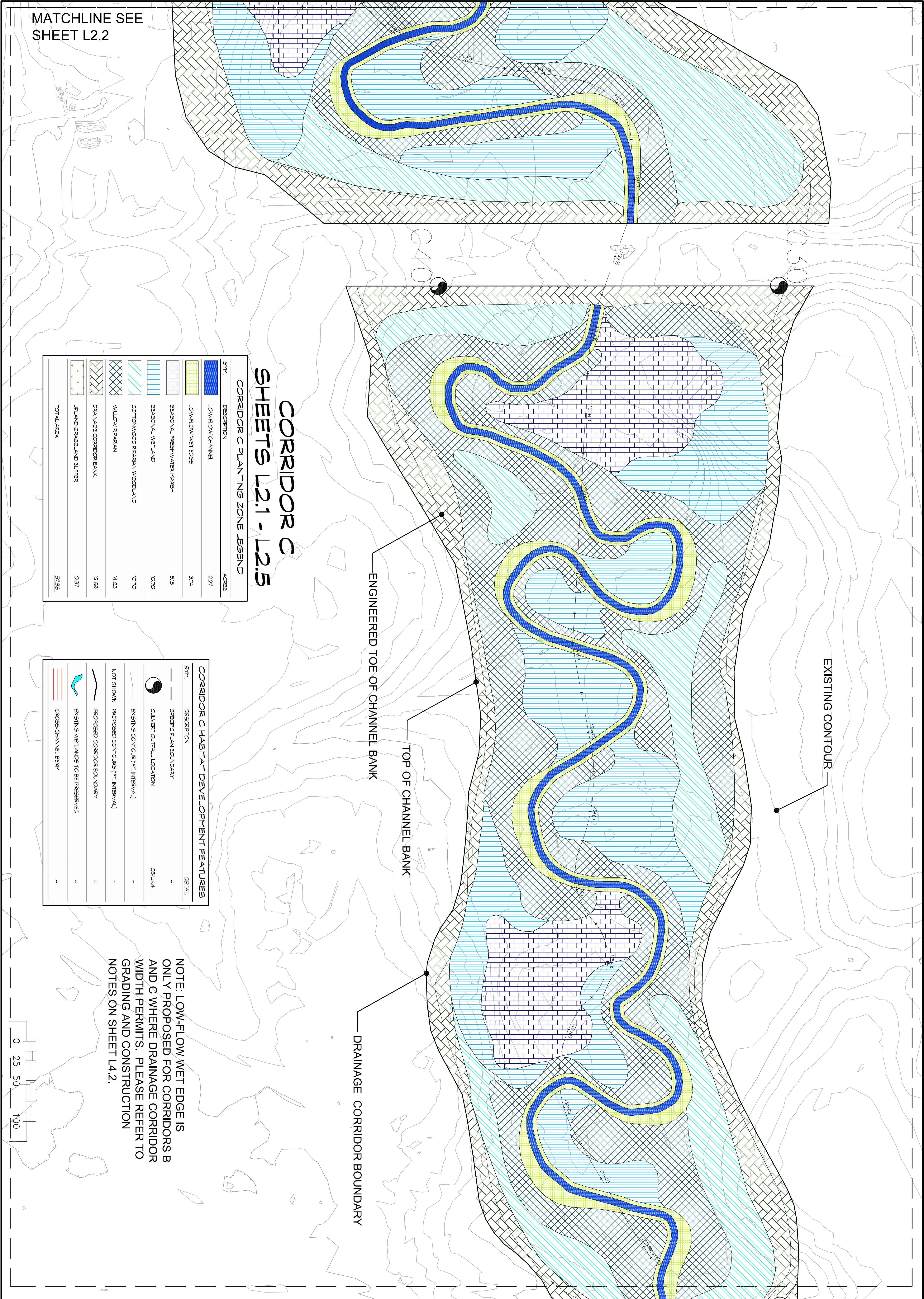
**RESTORATION
RESOURCES**

3888 CINCINNATI AVENUE
ROCKLIN, CA 95765
TEL 916.408.2990
FAX 916.408.2999
www.restoration-resources.net
CA LIC. #429252



CORRIDOR B PLANTING ZONE LEGEND	
SYM.	DESCRIPTION
[Blue box]	LOW-FLOW CHANNEL
[Yellow box]	LOW-FLOW WET EDGE
[Purple box]	SEASONAL FRESHWATER MARSH
[Light blue box]	SEASONAL WETLAND
[Green box]	COTTONWOOD RIPARIAN WOODLAND
[Dark green box]	RIPIARIAN GRASSLAND
[Cross-hatched box]	WILLOW RIPARIAN
[Diagonal lines box]	DRAINAGE CORRIDOR BANK
[Dotted box]	UPLAND GRASSLAND BUFFER
42.09	TOTAL AREA

CORRIDOR B HABITAT DEVELOPMENT FEATURES	
SYM.	DESCRIPTION
[Solid line]	SPECIFIC PLAN BOUNDARY
[Circle with cross]	CLIVERT OUTFALL LOCATION
[Dashed line]	EXISTING CONTOUR (FT. INTERVAL)
[Solid line]	PROPOSED CONTOUR (FT. INTERVAL)
[Solid line]	NOT SHOWN
[Solid line]	PROPOSED CORRIDOR BOUNDARY
[Wavy line]	EXISTING WETLANDS TO BE PRESERVED
[Red lines]	CROSS-CHANNEL BERM

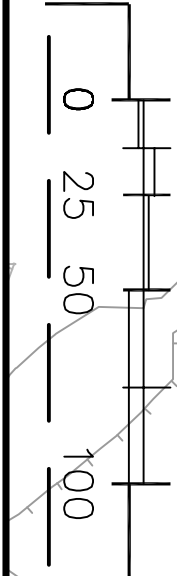


CORRIDOR C SHEETS L2.1 - L2.5

CORRIDOR C PLANTING ZONE LEGEND		
SYM	DESCRIPTION	ACRES
	LOW-FLOW CHANNEL	2.27
	LOW-FLOW WET EDGE	3.74
	SEASONAL FRESHWATER MARSH	5.15
	SEASONAL WETLAND	12.70
	COTTONWOOD RIPARIAN WOODLAND	10.70
	WILLOW RIPARIAN	14.63
	DRAINAGE CORRIDOR BANK	12.66
	UPLAND GRASSLAND BUFFER	0.37
	TOTAL AREA	57.25

CORRIDOR C HABITAT DEVELOPMENT FEATURES		
SYM	DESCRIPTION	DETAIL
	SPECIFIC PLANT BOUNDARY	--
	CLAYBET OUTFALL LOCATION	CS L4.4
	EXISTING CONTOUR (1FT INTERVAL)	--
	NOT SHOWN PROPOSED CONTOURS (1FT INTERVAL)	--
	PROPOSED CORRIDOR BOUNDARY	--
	EXISTING WETLANDS TO BE PRESERVED	--
	CROSS-CHANNEL BERM	--

NOTE: LOW-FLOW WET EDGE IS ONLY PROPOSED FOR CORRIDORS B AND C WHERE DRAINAGE CORRIDOR WIDTH PERMITS. PLEASE REFER TO GRADING AND CONSTRUCTION NOTES ON SHEET L4.2.



CORRIDOR C
SHEETS L2.1 - L2.5

CORRIDOR C PLANTING ZONE LEGEND

SYM.	DESCRIPTION	ACRES
	LOW-FLOW CHANNEL	2.27
	LOW-FLOW WET EDGE	3.74
	SEASONAL FRESHWATER MARSH	5.15
	SEASONAL WETLAND	10.70
	COTTONWOOD RIPARIAN WOODLAND	10.70
	WILLOW RIPARIAN	14.63
	DRAINAGE CORRIDOR BANK	12.68
	UPLAND GRASSLAND BUFFER	0.97
	TOTAL AREA	<u>57.55</u>

CORRIDOR B HABITAT DEVELOPMENT FEATURES

SYM.	DESCRIPTION	DETAIL
	SPECIFIC PLAN BOUNDARY	-
	CULVERT OUTFALL LOCATION	05/L4.4
	EXISTING CONTOUR (FT. INTERVAL)	-
	PROPOSED CONTOURS (FT. INTERVAL)	-
	PROPOSED CORRIDOR BOUNDARY	-
	EXISTING WETLANDS TO BE PRESERVED	-
	CROSS-CHANNEL BERM	-

EXISTING CONTOUR

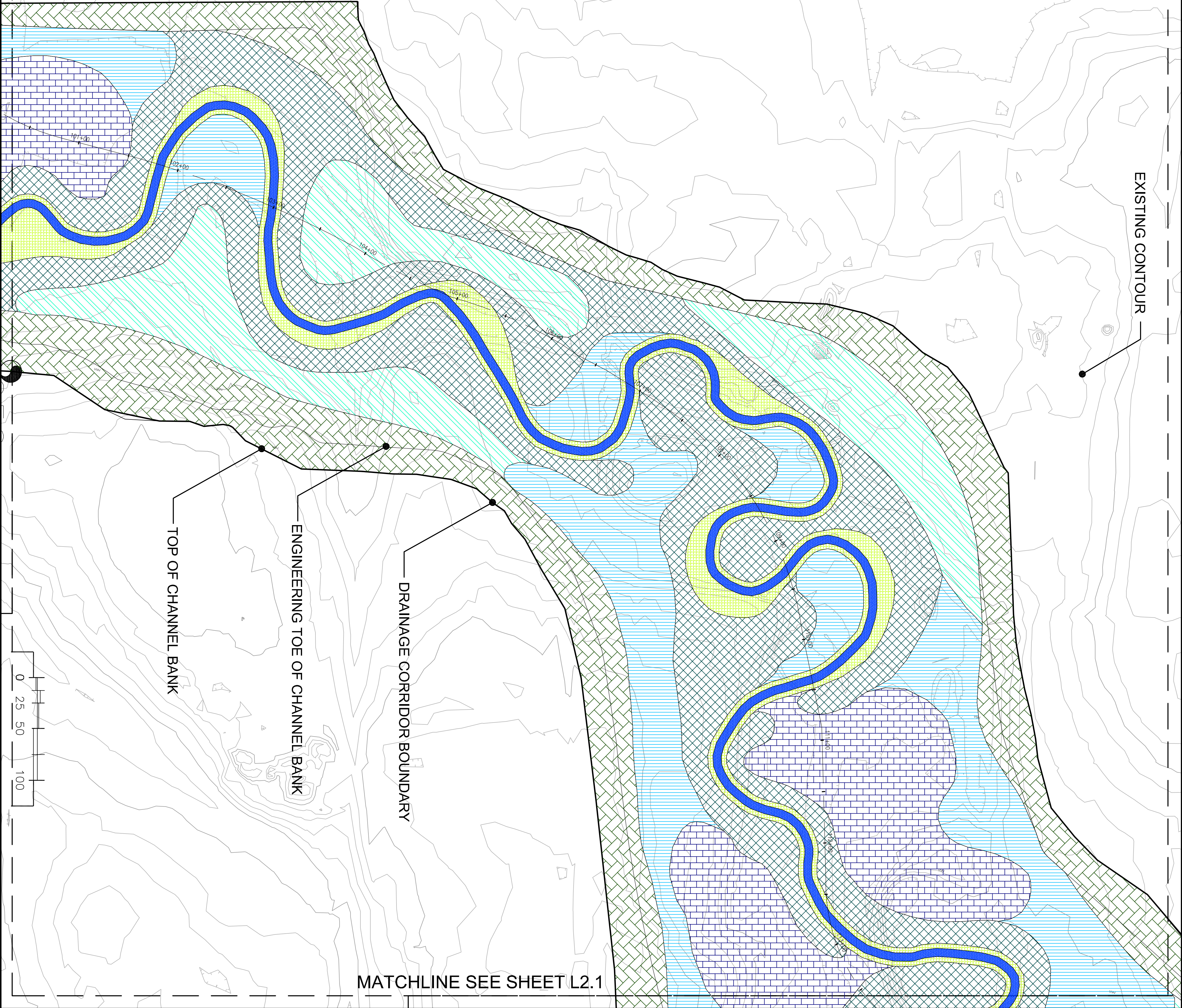
MATCHLINE SEE SHEET L2.1

DRAINAGE CORRIDOR BOUNDARY

ENGINEERING TOE OF CHANNEL BANK

TOP OF CHANNEL BANK

MATCHLINE SEE SHEET L2.3



SHEET NO:	CHECKED BY: <u>RS</u> DATE: <u>10.7.11</u>
L2.2	ORIGINAL DATE: <u>10.28.10</u> DRAWN BY: <u>LP/MAH</u> JOB NUMBER: <u>10029</u>
	REVISION: <u>1</u> DATE: <u>11.4.11</u> BY: <u>L. Pomeroy</u>
	<u>Water Quality Study and Trail Location</u> <u>10.7.11</u> <u>L. Pomeroy</u>

NORTH

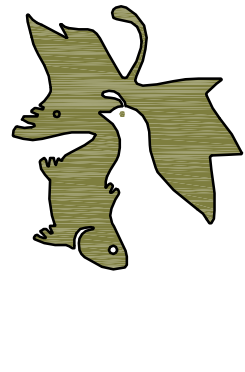
SCALE
1" = 50'

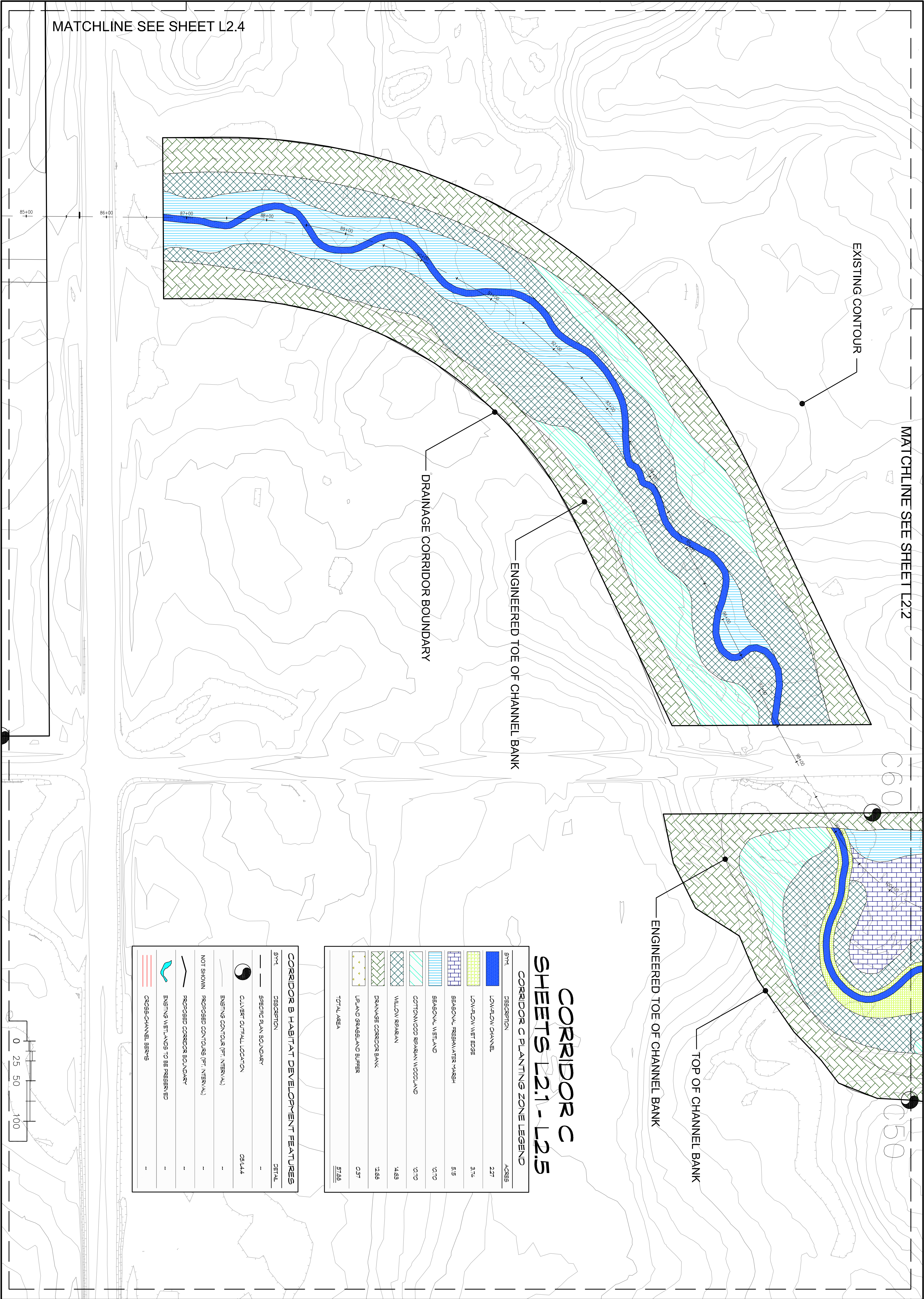
SHEET TITLE:	ELVERTA DRAINAGE CORRIDORS B, C, & D CONCEPTUAL HABITAT DEVELOPMENT PLAN Elverta, California
	CORRIDOR C HABITAT DEVELOPMENT PLAN (STA. 100+31 - 113+58)

CLIENT:	The RCH Group Jeff Pernstein, Project Manager 1640 Lead Hill Blvd., Suite 220 Roseville, CA 95661 TEL 916.782.4427
---------	--

NOT FOR
CONSTRUCTION

PREPARED BY:	RESTORATION RESOURCES
	3888 CINCINNATI AVENUE ROCKLIN, CA 95765 TEL 916.408.2990 FAX 916.408.2999 www.restoration-resources.net CA LIC. #429252





CORRIDOR C SHEETS L2.1 - L2.5

CORRIDOR C PLANTING ZONE LEGEND

SYM	DESCRIPTION	ACRES
	LOW-FLOW CHANNEL	2.27
	LOW-FLOW WET EDGE	3.74
	SEASONAL FRESHWATER MARSH	5.15
	SEASONAL WETLAND	10.70
	COTTONWOOD RIPARIAN WOODLAND	10.70
	WILLOW RIPARIAN	14.69
	DRAINAGE CORRIDOR BANK	12.69
	UP-LAND GRASSLAND BUFFER	0.37
	TOTAL AREA	57.69

CORRIDOR B HABITAT DEVELOPMENT FEATURES

SYM	DESCRIPTION	DETAIL
	SPECIFIC PLAN BOUNDARY	--
	CLIVERT OUTFALL LOCATION	05/14/4
	EXISTING CONTOUR (FT. INTERVAL)	--
	PROPOSED CONTOUR (FT. INTERVAL)	--
	NOT SHOWN	--
	PROPOSED CORRIDOR BOUNDARY	--
	EXISTING WETLANDS TO BE PRESERVED	--
	CROSS-CHANNEL BERM	--

SHEET NO:
L2.3

9 of 19

CHECKED BY: **RS** DATE: **10.7.11**

ORIGINAL DATE: **10.28.10** DRAWN BY: **LP/MAH** JOB NUMBER: **10029**

REVISION: **DATE: BY:**

1. **1.14.11** **L. P. MAH**

2. **10.7.11** **L. P. MAH**

3. **10.7.11** **L. P. MAH**

4. **10.7.11** **L. P. MAH**

5. **10.7.11** **L. P. MAH**

6. **10.7.11** **L. P. MAH**

7. **10.7.11** **L. P. MAH**

8. **10.7.11** **L. P. MAH**

9. **10.7.11** **L. P. MAH**

10. **10.7.11** **L. P. MAH**

11. **10.7.11** **L. P. MAH**

12. **10.7.11** **L. P. MAH**

13. **10.7.11** **L. P. MAH**

14. **10.7.11** **L. P. MAH**

15. **10.7.11** **L. P. MAH**

16. **10.7.11** **L. P. MAH**

17. **10.7.11** **L. P. MAH**

18. **10.7.11** **L. P. MAH**

19. **10.7.11** **L. P. MAH**

20. **10.7.11** **L. P. MAH**

21. **10.7.11** **L. P. MAH**

22. **10.7.11** **L. P. MAH**

23. **10.7.11** **L. P. MAH**

24. **10.7.11** **L. P. MAH**

25. **10.7.11** **L. P. MAH**

26. **10.7.11** **L. P. MAH**

27. **10.7.11** **L. P. MAH**

28. **10.7.11** **L. P. MAH**

29. **10.7.11** **L. P. MAH**

30. **10.7.11** **L. P. MAH**

31. **10.7.11** **L. P. MAH**

32. **10.7.11** **L. P. MAH**

33. **10.7.11** **L. P. MAH**

34. **10.7.11** **L. P. MAH**

35. **10.7.11** **L. P. MAH**

36. **10.7.11** **L. P. MAH**

37. **10.7.11** **L. P. MAH**

38. **10.7.11** **L. P. MAH**

39. **10.7.11** **L. P. MAH**

40. **10.7.11** **L. P. MAH**

41. **10.7.11** **L. P. MAH**

42. **10.7.11** **L. P. MAH**

43. **10.7.11** **L. P. MAH**

44. **10.7.11** **L. P. MAH**

45. **10.7.11** **L. P. MAH**

46. **10.7.11** **L. P. MAH**

47. **10.7.11** **L. P. MAH**

48. **10.7.11** **L. P. MAH**

49. **10.7.11** **L. P. MAH**

50. **10.7.11** **L. P. MAH**

51. **10.7.11** **L. P. MAH**

52. **10.7.11** **L. P. MAH**

53. **10.7.11** **L. P. MAH**

54. **10.7.11** **L. P. MAH**

55. **10.7.11** **L. P. MAH**

56. **10.7.11** **L. P. MAH**

57. **10.7.11** **L. P. MAH**

58. **10.7.11** **L. P. MAH**

59. **10.7.11** **L. P. MAH**

60. **10.7.11** **L. P. MAH**

61. **10.7.11** **L. P. MAH**

62. **10.7.11** **L. P. MAH**

63. **10.7.11** **L. P. MAH**

64. **10.7.11** **L. P. MAH**

65. **10.7.11** **L. P. MAH**

66. **10.7.11** **L. P. MAH**

67. **10.7.11** **L. P. MAH**

68. **10.7.11** **L. P. MAH**

69. **10.7.11** **L. P. MAH**

70. **10.7.11** **L. P. MAH**

71. **10.7.11** **L. P. MAH**

72. **10.7.11** **L. P. MAH**

73. **10.7.11** **L. P. MAH**

74. **10.7.11** **L. P. MAH**

75. **10.7.11** **L. P. MAH**

76. **10.7.11** **L. P. MAH**

77. **10.7.11** **L. P. MAH**

78. **10.7.11** **L. P. MAH**

79. **10.7.11** **L. P. MAH**

80. **10.7.11** **L. P. MAH**

81. **10.7.11** **L. P. MAH**

82. **10.7.11** **L. P. MAH**

83. **10.7.11** **L. P. MAH**

84. **10.7.11** **L. P. MAH**

85. **10.7.11** **L. P. MAH**

86. **10.7.11** **L. P. MAH**

87. **10.7.11** **L. P. MAH**

88. **10.7.11** **L. P. MAH**

89. **10.7.11** **L. P. MAH**

90. **10.7.11** **L. P. MAH**

91. **10.7.11** **L. P. MAH**

92. **10.7.11** **L. P. MAH**

93. **10.7.11** **L. P. MAH**

94. **10.7.11** **L. P. MAH**

95. **10.7.11** **L. P. MAH**

96. **10.7.11** **L. P. MAH**

97. **10.7.11** **L. P. MAH**

98. **10.7.11** **L. P. MAH**

99. **10.7.11** **L. P. MAH**

100. **10.7.11** **L. P. MAH**

SHEET TITLE:

ELVERTA DRAINAGE CORRIDORS B, C, & D
CONCEPTUAL HABITAT DEVELOPMENT PLAN
Elverta, California

CORRIDOR C HABITAT DEVELOPMENT PLAN
(STA. 84+79 - 100+31)

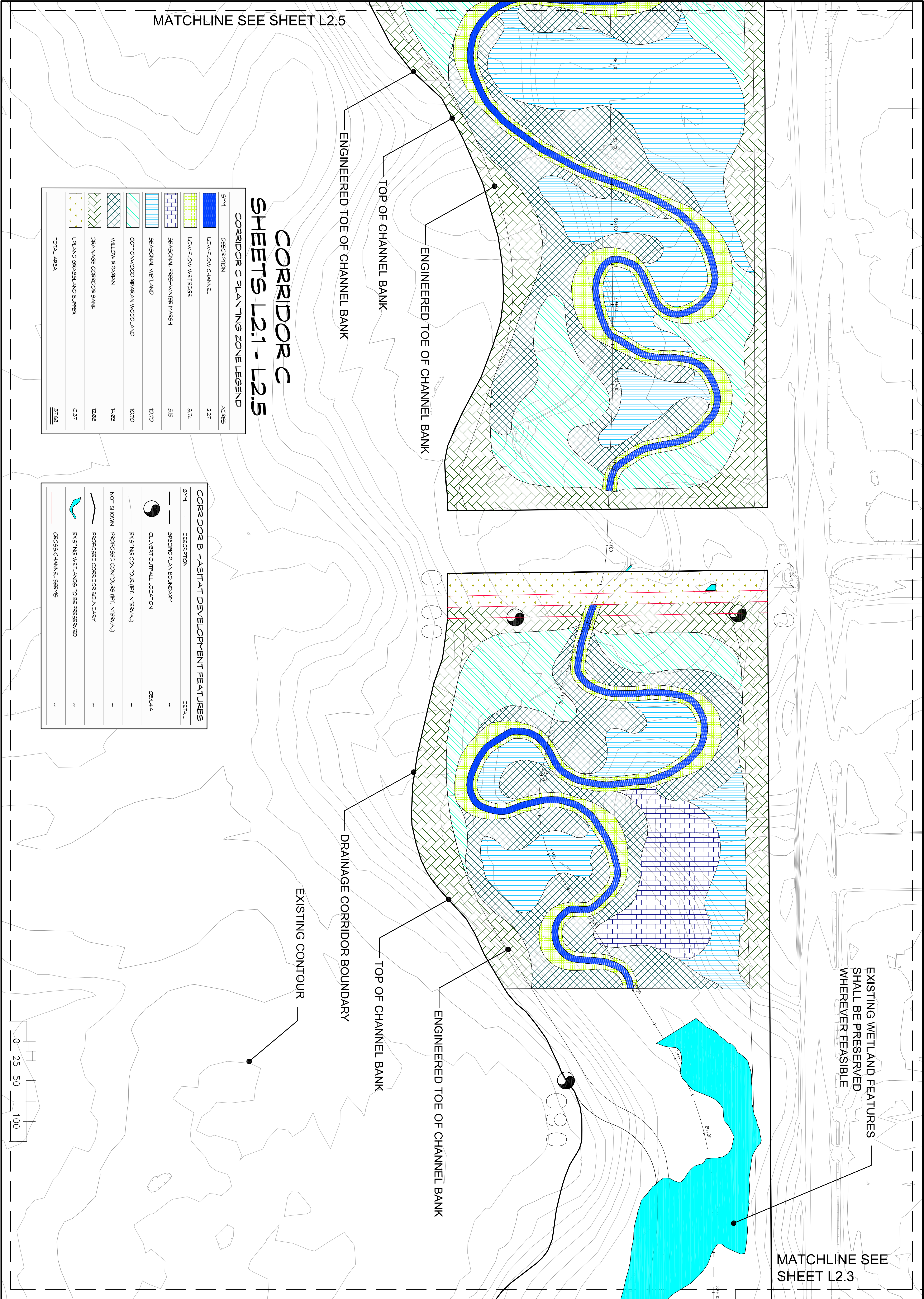
CLIENT:

The RCH Group
Jeff Pernstein, Project Manager
1640 Lead Hill Blvd., Suite 220
Roseville, CA 95661
TEL 916.782.4427

NOT FOR
CONSTRUCTION

PREPARED BY:

**RESTORATION
RESOURCES**
3888 CINCINNATI AVENUE
ROCKLIN, CA 95765
TEL 916.408.2990
FAX 916.408.2990
www.restoration-resources.net
CA LIC. #429252



MATCHLINE SEE SHEET L2.5

CORRIDOR C

SHEETS L2.1 - L2.5

SYM.	DESCRIPTION	ACRES
[Blue solid fill]	LOW-FLOW CHANNEL	2.27
[Yellow cross-hatch]	LOW-FLOW WET EDGE	3.74
[Blue horizontal lines]	SEASONAL FRESHWATER MASH	5.15
[Blue vertical lines]	SEASONAL WETLAND	12.70
[Green diagonal lines]	COTTONWOOD SPRAWN WOODLAND	12.70
[Green cross-hatch]	WILLOW SPRAWN	14.63
[Green diagonal lines]	DRAINAGE CORRIDOR BANK	12.68
[Yellow dots]	UPLAND GRASSLAND BUFFER	0.37
TOTAL AREA		77.28

SYM.	DESCRIPTION	DETAIL
[Solid black line]	SPECIFIC PLAN BOUNDARY	-
[Circle with dot]	OLIVEST OUTFALL LOCATION	05/L4.4
[Dashed line]	EXISTING CONTOUR (FT. INTERVAL)	-
[Solid line]	PROPOSED CONTOUR (FT. INTERVAL)	-
[Dashed line]	NOT SHOWN	-
[Solid line]	PROPOSED CORRIDOR BOUNDARY	-
[Blue wavy line]	EXISTING WETLANDS TO BE PRESERVED	-
[Red dashed line]	CROSS-CHANNEL BERM	-

EXISTING WETLAND FEATURES
SHALL BE PRESERVED
WHEREVER FEASIBLE

MATCHLINE SEE
SHEET L2.3

SHEET NO:

L2.4

CHECKED BY: RS

DATE: 10.7.11

ORIGINAL DATE: 10.28.10

DRAWN BY: LP/MAH

JOBS NUMBER: 10029

REVISION:

DATE:

BY:

Water Quality Study and Trail Update

1.14.11

L. P. M.

Conifer Reforestation

10.7.11

L. P. M.

10 of 19

NORTH

SCALE

1" = 50'

SHEET TITLE:

ELVERTA DRAINAGE CORRIDORS B, C, & D

CONCEPTUAL HABITAT DEVELOPMENT PLAN

Elverta, California

CORRIDOR C HABITAT DEVELOPMENT PLAN

(STA. 65+33 - 82+96)

CLIENT:

The RCH Group

Jeff Pernstein, Project Manager

1640 Lead Hill Blvd., Suite 220

Roseville, CA 95661

TEL 916.782.4427

NOT FOR
CONSTRUCTION

PREPARED BY:

RESTORATION
RESOURCES

3888 CINCINNATI AVENUE

ROCKLIN, CA 95765

TEL 916.408.2990

FAX 916.408.2999

www.restoration-resources.net

CA LIC. #429252

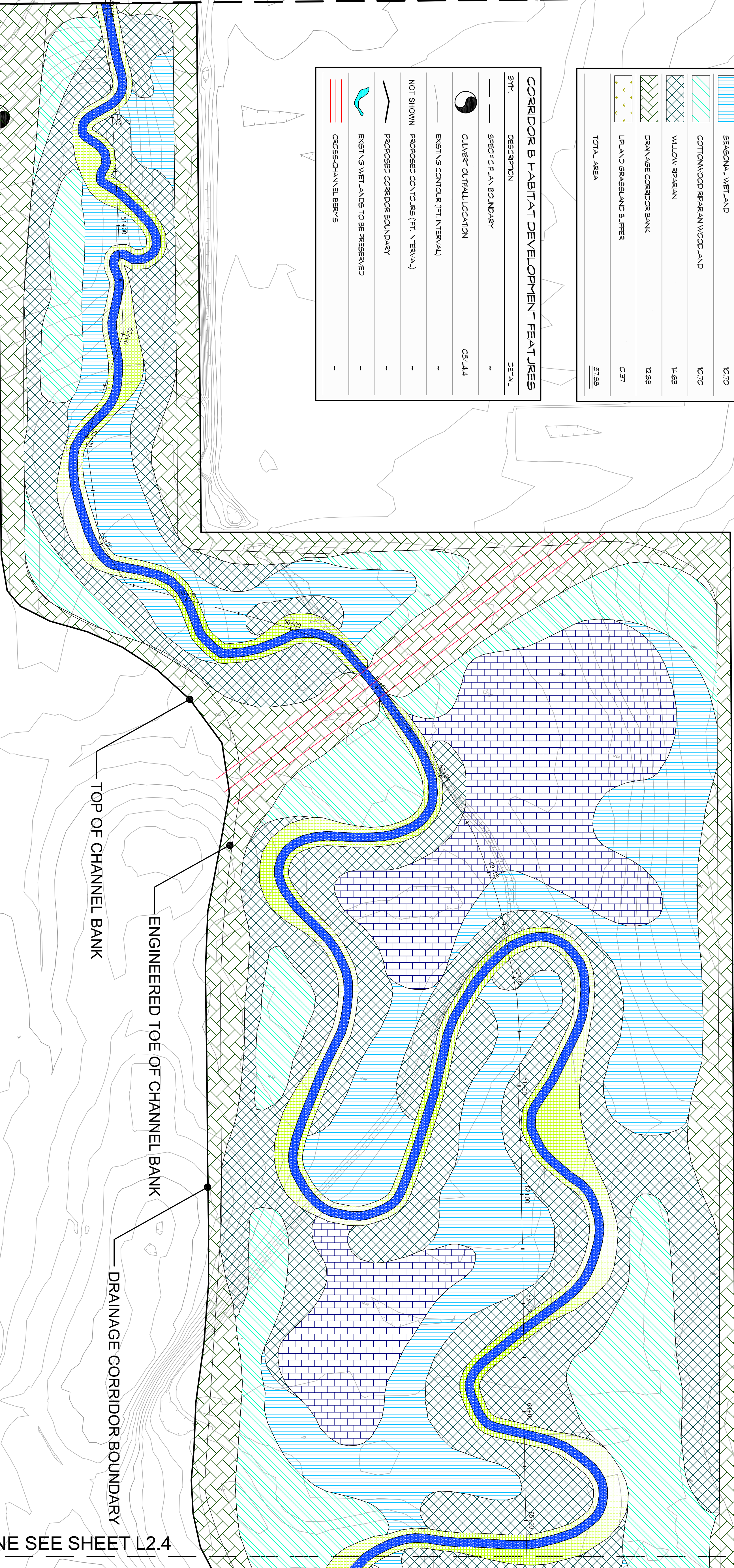
CORRIDOR C
SHEETS L2.1 - L2.5

CORRIDOR C PLANTING ZONE LEGEND

SYM.	DESCRIPTION	ACRES
	LOW-FLOW CHANNEL	2.27
	LOW-FLOW WET EDGE	3.74
	SEASONAL FRESHWATER MARSH	5.15
	SEASONAL WETLAND	10.70
	COTTONWOOD RIPARIAN WOODLAND	10.70
	WILLOW RIPARIAN	14.63
	DRAINAGE CORRIDOR BANK	12.66
	UPLAND GRASSLAND BUFFER	0.37
	TOTAL AREA	57.68

CORRIDOR B HABITAT DEVELOPMENT FEATURES

SYM.	DESCRIPTION	DETAIL
	SPECIFIC PLAIN BOUNDARY	--
	CULVERT OUTFALL LOCATION	CS L14.4
	EXISTING CONTOUR (FT. INTERVAL)	--
	PROPOSED CONTOURS (FT. INTERVAL)	--
	PROPOSED CORRIDOR BOUNDARY	--
	EXISTING WETLANDS TO BE PRESERVED	--
	CROSS-CHANNEL BERRIS	--



SHEET NO:
L2.5

11 of 19

CHECKED BY: **RS** DATE: **10.7.11**

ORIGINAL DATE: 10.28.10 DRAWN BY: LP/MAH JOB NUMBER: 10029

REVISION: DATE: BY:

Water Quality Study and Trail Location 1.14.11 L. P. Papp

Corridor Redesign 10.7.11 L. P. Papp

NORTH

SCALE
1" = 50'

SHEET TITLE:

ELVERTA DRAINAGE CORRIDORS B, C, & D
CONCEPTUAL HABITAT DEVELOPMENT PLAN
Elverta, California

CORRIDOR C HABITAT DEVELOPMENT PLAN
(STA. 47+30 - 65+33)

CLIENT:

The RCH Group

Jeff Pernstein, Project Manager

1640 Lead Hill Blvd., Suite 220

Roseville, CA 95661

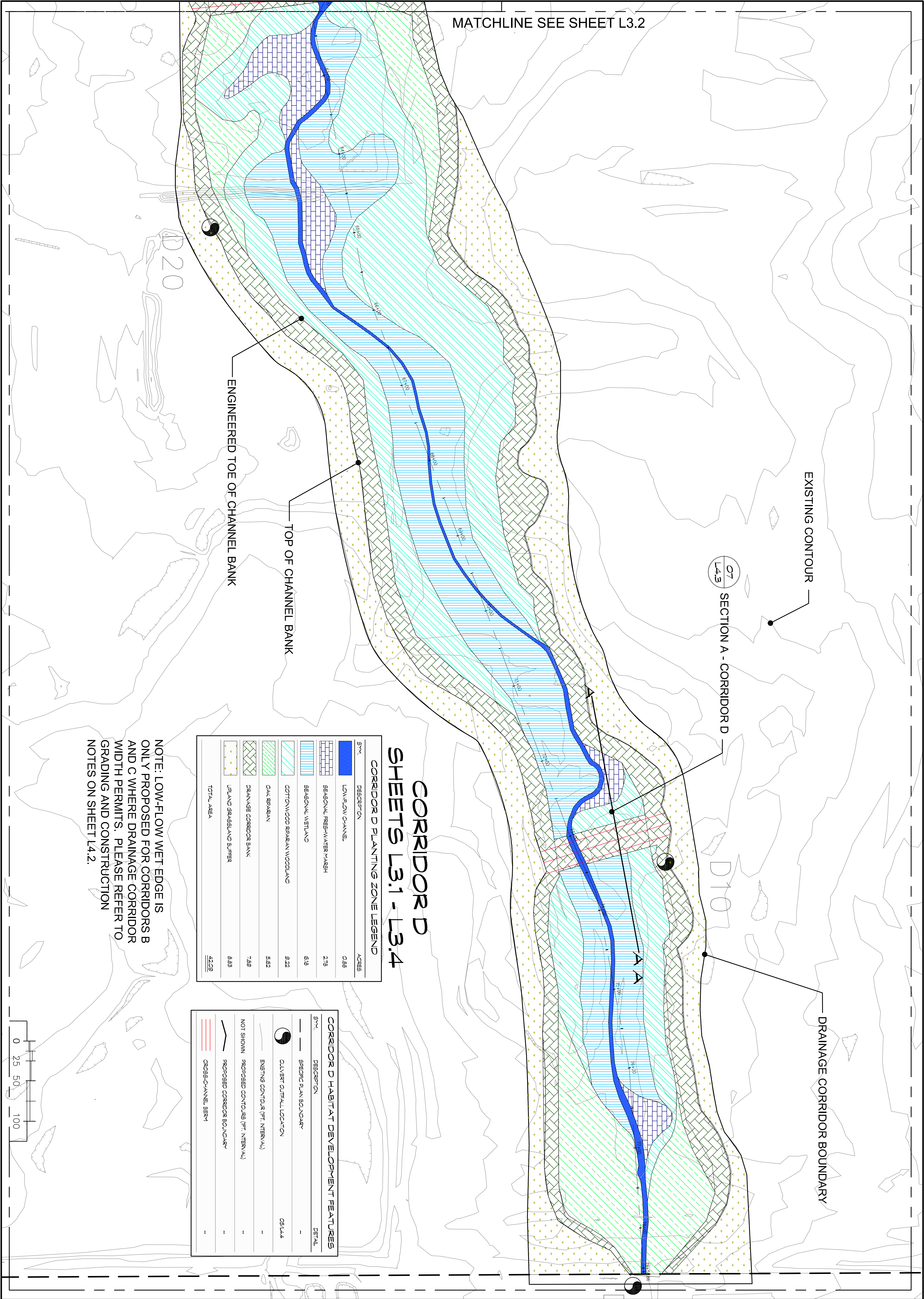
TEL 916.782.4427

NOT FOR
CONSTRUCTION

PREPARED BY:

**RESTORATION
RESOURCES**

3888 CINCINNATI AVENUE
ROCKLIN, CA 95765
TEL 916.408.2990
FAX 916.408.2999
www.restoration-resources.net
CA LIC. #429252

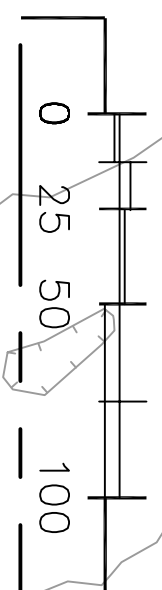


CORRIDOR D
SHEETS L3.1 - L3.4

CORRIDOR D PLANTING ZONE LEGEND		
SYM.	DESCRIPTION	ACRES
	LOW-FLOW CHANNEL	0.86
	SEASONAL FRESHWATER WASH	2.75
	SEASONAL WETLAND	6.15
	COTTONWOOD RIPARIAN WOODLAND	9.22
	OAK RIPARIAN	5.62
	DRAINAGE CORRIDOR BANK	7.89
	UPLAND GRASSLAND SLIPPER	8.53
	TOTAL AREA	42.09

NOTE: LOW-FLOW WET EDGE IS ONLY PROPOSED FOR CORRIDORS B AND C WHERE DRAINAGE CORRIDOR WIDTH PERMITS. PLEASE REFER TO GRADING AND CONSTRUCTION NOTES ON SHEET L4.2.

CORRIDOR D HABITAT DEVELOPMENT FEATURES		
SYM.	DESCRIPTION	DETAIL
	SPECIFIC PLANT BOUNDARY	-
	OLIVER OUTFALL LOCATION	05 L4.4
	EXISTING CONTOUR (FT. INTERVAL)	-
	PROPOSED CONTOUR (FT. INTERVAL)	-
	PROPOSED CORRIDOR BOUNDARY	-
	CROSS-CHANNEL BERRY	-



SHEET NO:
L3.1

12 of 19

CHECKED BY: **RS** DATE: **10.7.11**

ORIGINAL DATE: 10.28.10 DRAWN BY: LP/MAH JOB NUMBER: 10029

REVISION: DATE: BY:

Water Quality Study and Trail Location

Corridor Redesign

10.7.11

L. Pernin

L. Mah

NORTH

SCALE
1" = 50'

SHEET TITLE:
ELVERTA DRAINAGE CORRIDORS B, C, & D
CONCEPTUAL HABITAT DEVELOPMENT PLAN
Elverta, California

CORRIDOR D HABITAT DEVELOPMENT PLAN
(STA. 62+18 - 78+55)

CLIENT:

The RCH Group
Jeff Pernstein, Project Manager
1640 Lead Hill Blvd., Suite 220
Roseville, CA 95661
TEL 916.782.4427

NOT FOR CONSTRUCTION

PREPARED BY:
RESTORATION RESOURCES
3888 CINCINNATI AVENUE
ROCKLIN, CA 95765
TEL 916.408.2990
FAX 916.408.2999
www.restoration-resources.net
CA LIC. #429252

CORRIDOR D
SHEETS L3.1 - L3.4

CORRIDOR D PLANTING ZONE LEGEND		
SYM.	DESCRIPTION	ACRES
	LOW-FLOW CHANNEL	0.85
	SEASONAL FRESHWATER MARSH	2.78
	SEASONAL WETLAND	6.65
	COTTONWOOD RIPARIAN WOODLAND	9.22
	OAK RIPARIAN	5.62
	DRAINAGE CORRIDOR BANK	7.89
	UPLAND GRASSLAND BUFFER	5.83
TOTAL AREA		42.09

CORRIDOR D HABITAT DEVELOPMENT FEATURES		
SYM.	DESCRIPTION	DETAIL
	SPECIFIC PLANT BOUNDARY	-
	CLVERT OUTFALL LOCATION	CS L4.4
	EXISTING CONTOUR (FT. INTERVAL)	-
	PROPOSED CONTOUR (FT. INTERVAL)	-
	NOT SHOWN	-
	PROPOSED CORRIDOR BOUNDARY	-
	CROSS-CHANNEL BERM	-

MATCHLINE SEE SHEET L3.3

CS
L4.3 SECTION B - CORRIDOR D

TOP OF CHANNEL BANK

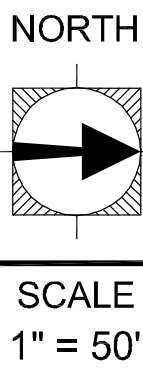
ENGINEERED TOE OF CHANNEL BANK

DRAINAGE CORRIDOR BOUNDARY

EXISTING CONTOUR

MATCHLINE SEE SHEET L3.1

SHEET NO:	CHECKED BY: RS	DATE: 10.7.11
	ORIGINAL DATE: 10.28.10	DRAWN BY: LP/MAH
L3.2	REVISION:	DATE:
	Water Quality Drain and Trail Location	1.14.11
13 of 19	Combiner Roadside	10.7.11
	BY: L. P. MAH	

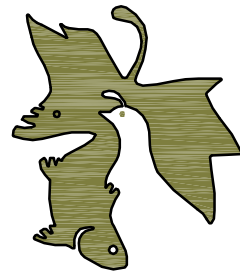


SHEET TITLE:	
ELVERTA DRAINAGE CORRIDORS B, C, & D CONCEPTUAL HABITAT DEVELOPMENT PLAN Elverta, California	
CORRIDOR D HABITAT DEVELOPMENT PLAN (STA. 44+47 - 62+18)	

CLIENT:
The RCH Group Jeff Pernstein, Project Manager 1640 Lead Hill Blvd., Suite 220 Roseville, CA 95661 TEL 916.782.4427

NOT FOR
CONSTRUCTION

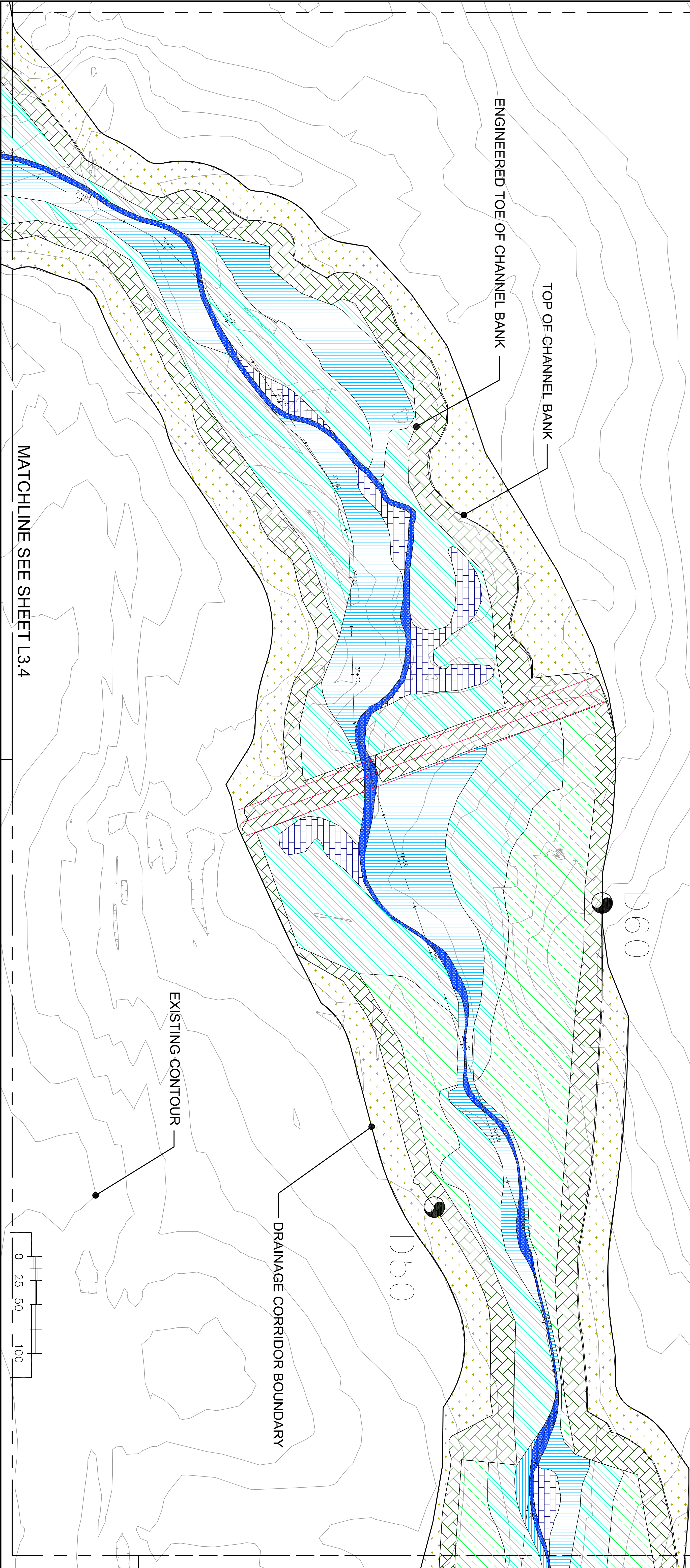
PREPARED BY:
RESTORATION RESOURCES
3888 CINCINNATI AVENUE ROCKLIN, CA 95765 TEL 916.408.2990 FAX 916.408.2999 www.restoration-resources.net CA LIC. #429252



CORRIDOR D
SHEETS L3.1 - L3.4

CORRIDOR D PLANTING ZONE LEGEND	
SYM.	ACRES
	LOWLAND CHANNEL
	SEASONAL FRESHWATER MARSH
	SEASONAL WETLAND
	COTTONWOOD RIPARIAN WOODLAND
	OAK RIPARIAN
	DRAINAGE CORRIDOR BANK
	UPLAND GRASSLAND BUFFER
42.09	TOTAL AREA

CORRIDOR D HABITAT DEVELOPMENT FEATURES	
SYM.	DETAIL
	SPECIFIC PLAN BOUNDARY
	CULVERT OUTFALL LOCATION
	EXISTING CONTOUR (FT. INTERVAL)
	NOT SHOWN PROPOSED CONTOUR (FT. INTERVAL)
	PROPOSED CORRIDOR BOUNDARY
	CROSS-CHANNEL BERRY



MATCHLINE SEE SHEET L3.2

SHEET NO:
L3.3

14 of 19

CHECKED BY: **RS** DATE: **10.7.11**

ORIGINAL DATE: 10.28.10 DRAWN BY: LP/MAH JOB NUMBER: 10029

REVISION: DATE: BY:

Water Quality Study and Trail Location 1.14.11 L. H. H.

Corridor Habiology 10.7.11 L. H. H.

NORTH

SCALE
1" = 50'

SHEET TITLE:
ELVERTA DRAINAGE CORRIDORS B, C, & D
CONCEPTUAL HABITAT DEVELOPMENT PLAN
Elverta, California

CORRIDOR D HABITAT DEVELOPMENT PLAN
(STA. 28+20 - 44+47)

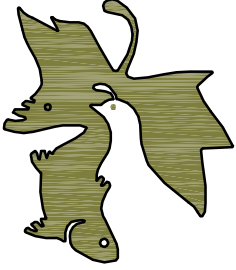
CLIENT:

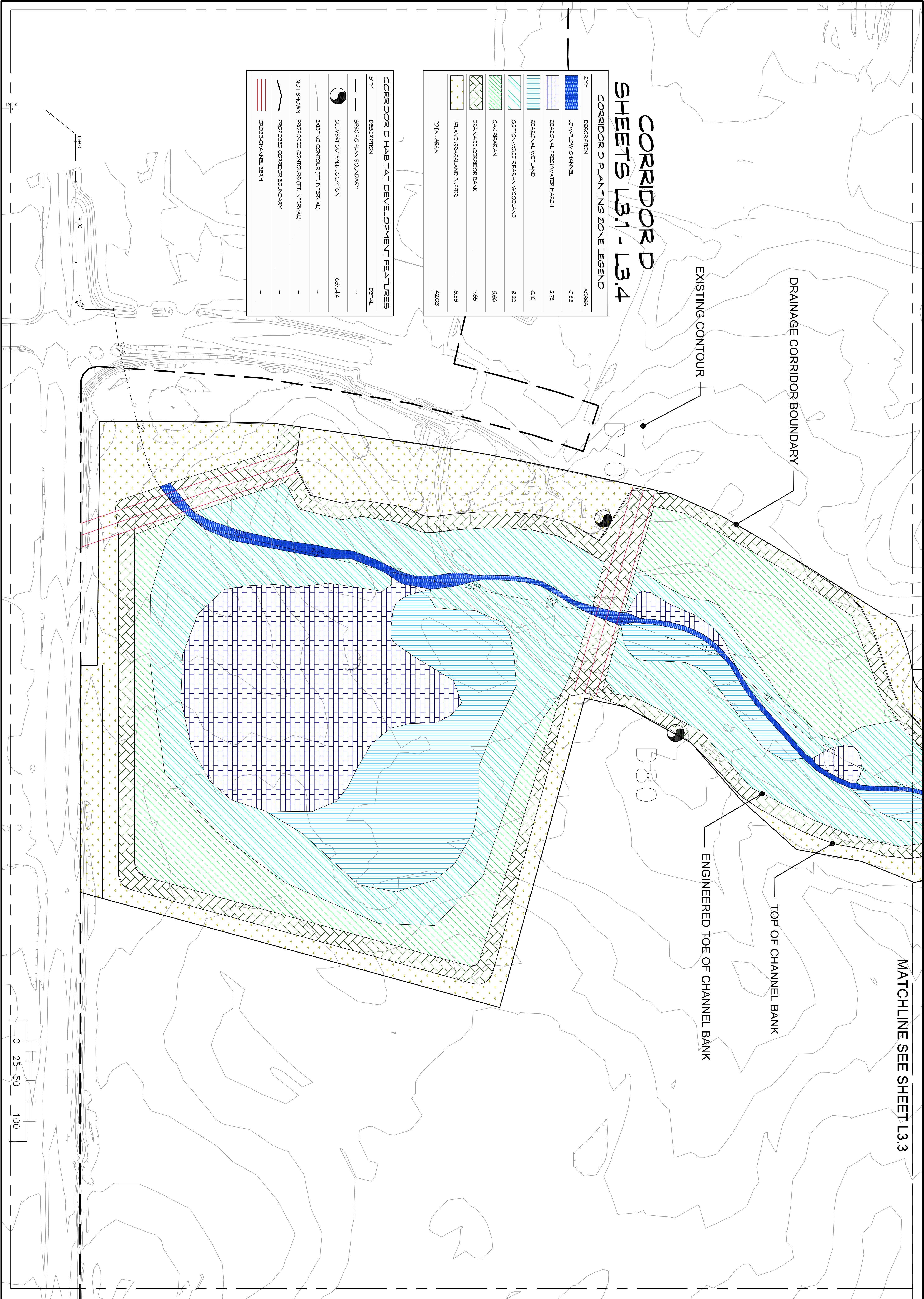
The RCH Group
Jeff Pernstein, Project Manager
1640 Lead Hill Blvd., Suite 220
Roseville, CA 95661
TEL 916.782.4427

NOT FOR
CONSTRUCTION

PREPARED BY:

**RESTORATION
RESOURCES**
3888 CINCINNATI AVENUE
ROCKLIN, CA 95765
TEL 916.408.2990
FAX 916.408.2999
www.restoration-resources.net
CA LIC. #429252





CORRIDOR D SHEETS L3.1 - L3.4

CORRIDOR D PLANTING ZONE LEGEND

SYM.	DESCRIPTION	ACRES
	LOW-FLOW CHANNEL	0.66
	SEASONAL FRESHWATER MARSH	2.76
	SEASONAL WETLAND	6.16
	COTTONWOOD RIPARIAN WOODLAND	9.22
	OAK RIPARIAN	5.62
	DRAINAGE CORRIDOR BANK	7.29
	UPLAND GRASSLAND BUFFER	6.63
	TOTAL AREA	42.09

CORRIDOR D HABITAT DEVELOPMENT FEATURES

SYM.	DESCRIPTION	DETAIL
	SPECIFIC PLAN BOUNDARY	-
	CULVERT OUTFALL LOCATION	CELL 44
	EXISTING CONTOUR (FT. INTERVAL)	-
	PROPOSED CONTOUR (FT. INTERVAL)	-
	PROPOSED CORRIDOR BOUNDARY	-
	CROSS-CHANNEL BERM	-

MATCHLINE SEE SHEET L3.3

DRAINAGE CORRIDOR BOUNDARY

EXISTING CONTOUR

TOP OF CHANNEL BANK

ENGINEERED TOE OF CHANNEL BANK

SHEET NO:
L3.4

15 of 19

CHECKED BY: RS DATE: 10.7.11

ORIGINAL DATE: 10.28.10 DRAWN BY: LP/MAH JOBS NUMBER: 10029

REVISION: DATE: BY:

Water Quality Drain and Trail Location 1.14.11 L. Rippe

Combiner Installation 10.7.11 L. Rippe

NORTH

SCALE
1" = 50'

SHEET TITLE:
ELVERTA DRAINAGE CORRIDORS B, C, & D
CONCEPTUAL HABITAT DEVELOPMENT PLAN
Elverta, California

CORRIDOR D HABITAT DEVELOPMENT PLAN
(STA. 12+00 - 28+20)

CLIENT:

The RCH Group
Jeff Pernstein, Project Manager
1640 Lead Hill Blvd., Suite 220
Roseville, CA 95661
TEL 916.782.4427

NOT FOR
CONSTRUCTION


PREPARED BY:

**RESTORATION
RESOURCES**
3888 CINCINNATI AVENUE
ROCKLIN, CA 95765
TEL 916.408.2990
FAX 916.408.2990
www.restoration-resources.net
CA LIC. #429252

PLANT PALETTES

CORRIDOR B

HERBACEOUS SEED AND PLUG PLANTING

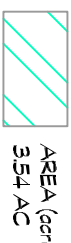
HABITAT TYPE: UPLAND GRASSLAND BLUFFER / DRAINAGE CORRIDOR BANK		AREA (sq'ft) 1702 AC
BOTANICAL NAME / COMMON NAME	DELT SEED RATES (#LBS./ACR)	SEED REQUIRED (LBS)
ASCOSTIS EXAKATA / BENTGRASS	4	54
ELYMUS TRACHYCALUS / SLENDER WHEATGRASS	4	54
ELYMUS GLAUCUS / BLUE WILD RYE	4	54
HOCDELM BACCHANTHERUM / MEADOW BARLEY	4	54
LEYMUS TRITICOIDES / CREEPING WILD RYE	4	54
TOTAL lb	20	270
ELUTHANIA OCCIDENTALIS / GOLDENROD	4	54
GRACIELA CANFORUM / GUY-PLANT	5	66
CEUTHEREA ELATA / EVENING PRIMROSE	5	66
TOTAL lb	14	180

TREE AND SHRUB PLANTING

HABITAT TYPE: UPLAND GRASSLAND BLUFFER / DRAINAGE CORRIDOR BANK		AREA (sq'ft) 1702 AC
BOTANICAL NAME / COMMON NAME	DELT SEED RATES (#LBS./ACR)	SEED REQUIRED (LBS)
QUERCUS LOBATA / VALLEY OAK	7	7
QUERCUS WILBESSENI / INTERIOR LIVE OAK	5	5
ASCULUS CALIFORNICA / CALIFORNIA BUCKEYE	3	3
SAUBOLUS PENICMAN / BLUE ELDERBERRY	5	5
RYANANUS CALIFORNICA / CORNEBERRY	4	4
ROSA ACCLUMAS / WILD ROSE	9	9
RUBUS USINUS / CALIFORNIA BLACKBERRY	9	9
VITIS CALIFORNICA / CALIFORNIA WILD GRAPE	6	6
TOTAL QUANTITY PER ACRE	50	

HABITAT TYPE: WILLOW RIPARIAN		AREA (sq'ft) 328 AC
BOTANICAL NAME / COMMON NAME	DELT SEED RATES (#LBS./ACR)	SEED REQUIRED (LBS)
ALNUS RHICNIFOLIA / WHITE ALDER	5	5
FRAXINUS LATIFOLIA / OREGON ASH	15	15
SAUX ENGUA / BANGOR WILLOW	5	5
SAUX NIGRA / BLACK WILLOW	15	15
SAUX LASIOLEPS / ARROYO WILLOW	15	15
BACCHIAS BAUCIFOLIA / WILFERT	30	30
CERUALANTHUS OCCIDENTALIS / BUTION WILLOW	15	15
VITIS CALIFORNICA / CALIFORNIA WILD GRAPE	15	15
TOTAL QUANTITY PER ACRE	120	

HABITAT TYPE: WOODLAND		AREA (sq'ft) 354 AC
BOTANICAL NAME / COMMON NAME	DELT SEED RATES (#LBS./ACR)	SEED REQUIRED (LBS)
POPULUS TREMONTI / COTTONWOOD	25	25
SAUX NIGRA / BLACK WILLOW	15	15
SAUX LUTEA / YELLOW WILLOW	10	10
SAUX LASIOLEPS / ARROYO WILLOW	10	10
BACCHIAS BAUCIFOLIA / WILFERT	30	30
RUBUS USINUS / CALIFORNIA BLACKBERRY	20	20
VITIS CALIFORNICA / CALIFORNIA WILD GRAPE	20	20
TOTAL QUANTITY PER ACRE	140	

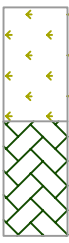
HABITAT TYPE: WOODLAND		AREA (sq'ft) 354 AC
BOTANICAL NAME / COMMON NAME	DELT SEED RATES (#LBS./ACR)	SEED REQUIRED (LBS)
POPULUS TREMONTI / COTTONWOOD	25	25
SAUX NIGRA / BLACK WILLOW	15	15
SAUX LUTEA / YELLOW WILLOW	10	10
SAUX LASIOLEPS / ARROYO WILLOW	10	10
BACCHIAS BAUCIFOLIA / WILFERT	30	30
RUBUS USINUS / CALIFORNIA BLACKBERRY	20	20
VITIS CALIFORNICA / CALIFORNIA WILD GRAPE	20	20
TOTAL QUANTITY PER ACRE	140	

HABITAT TYPE: SEASONAL FRESHWATER WASH		AREA (sq'ft) 207 AC
Low flow channel & debris retention of debris	PLUGS (TREES/AND) PER ACRE	QUANTITY REQ.
BOTANICAL NAME / COMMON NAME	PLUGS (TREES/AND) PER ACRE	QUANTITY REQ.
JUNCUS EFFRUSUS / SOFT RUSH	75	155
JUNCUS PATENS / COMMON RUSH	75	155
SCORONOPLECTUS ACUTUS OCCIDENTALIS / TULE	100	207
SCORONOPLECTUS ROBUSTUS / STUDY BLUEGRASS	100	207
TYPIA LATIFOLIA / COMMON CATTAIL	100	207
TOTAL PLUGS	450	591

HABITAT TYPE: LOW FLOW CHANNEL WETSEDS			AREA (sq'ft) 150 AC
Low flow channel & debris retention of debris		PLUGS (TREES/AND) PER ACRE	QUANTITY REQ.
BOTANICAL NAME / COMMON NAME		PLUGS (TREES/AND) PER ACRE	QUANTITY REQ.
ASCOSTIS EXAKATA / BENTGRASS		7	11
ELYMUS TRACHYCALUS / SLENDER WHEATGRASS		7	11
LEYMUS TRITICOIDES / CREEPING WILD RYE		12	18
TOTAL lb		28	40
JUNCUS PATENS / COMMON RUSH		100	207
ELIOTCHIAS VACCOSTACHYA / PALE SPINERUSH		100	207
JUNCUS EFFRUSUS / SOFT RUSH		100	207
JUNCUS PATENS / COMMON RUSH		100	207
TOTAL PLUGS		450	675

CORRIDOR D

HERBACEOUS SEED AND PLUG PLANTING

HABITAT TYPE: UPLAND GRASSLAND BLUFFER / DRAINAGE CORRIDOR BANK		AREA (sq'ft) 672 AC
BOTANICAL NAME / COMMON NAME	DELT SEED RATES (#LBS./ACR)	SEED REQUIRED (LBS)
ASCOSTIS EXAKATA / BENTGRASS	4	22
ELYMUS TRACHYCALUS / SLENDER WHEATGRASS	4	22
ELYMUS GLAUCUS / BLUE WILD RYE	4	22
HOCDELM BACCHANTHERUM / MEADOW BARLEY	4	22
LEYMUS TRITICOIDES / CREEPING WILD RYE	4	22
TOTAL lb	24	133

TREE AND SHRUB PLANTING

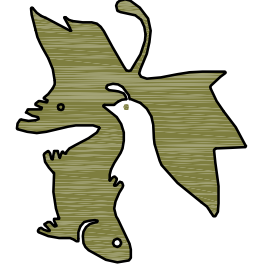
HABITAT TYPE: OK RIPARIAN WOODLAND		AREA (sq'ft) 582 AC
BOTANICAL NAME / COMMON NAME	DELT SEED RATES (#LBS./ACR)	SEED REQUIRED (LBS)
QUERCUS LOBATA / VALLEY OAK	15	15
QUERCUS WILBESSENI / INTERIOR LIVE OAK	12	12
ASCULUS CALIFORNICA / CALIFORNIA BUCKEYE	6	6
SAUBOLUS PENICMAN / BLUE ELDERBERRY	12	12
RYANANUS CALIFORNICA / CORNEBERRY	5	5
ROSA ACCLUMAS / WILD ROSE	15	15
RUBUS USINUS / CALIFORNIA BLACKBERRY	15	15
VITIS CALIFORNICA / CALIFORNIA WILD GRAPE	15	15
TOTAL CONTAINERS	95	

HABITAT TYPE: OK RIPARIAN WOODLAND		AREA (sq'ft) 582 AC
BOTANICAL NAME / COMMON NAME	DELT SEED RATES (#LBS./ACR)	SEED REQUIRED (LBS)
ALNUS RHICNIFOLIA / WHITE ALDER	5	5
FRAXINUS LATIFOLIA / OREGON ASH	15	15
SAUX ENGUA / BANGOR WILLOW	5	5
BACCHIAS BAUCIFOLIA / WILFERT	30	30
RUBUS USINUS / CALIFORNIA BLACKBERRY	15	15
VITIS CALIFORNICA / CALIFORNIA WILD GRAPE	15	15
TOTAL CONTAINERS	125	

HABITAT TYPE: COTTONWOOD RIPARIAN WOODLAND		AREA (sq'ft) 822 AC
BOTANICAL NAME / COMMON NAME		QTY / AC
POTULIS PERMONTI / COTTONWOOD		25
SALIX NIGRA / BLACK WILLOW		10
SALIX LUTEA / YELLOW WILLOW		10
SALIX LASIOLEPS / ARBORE WILLOW		10
BACCHARIS CALICIFOLIA / RUBERT		30
RUBUS USUALL / CALIFORNIA BLACKBERRY		20
VITIS CALIFORNICA / CALIFORNIA WILD GRAPE		30
TOTAL CONTAINERS		135

HABITAT TYPE: SEASONAL FRESHWATER WASH		AREA (sq'ft) 678 AC
Low flow channel & debris retention of debris	PLUGS (TREES/AND) PER ACRE	QUANTITY REQ.
BOTANICAL NAME / COMMON NAME	PLUGS (TREES/AND) PER ACRE	QUANTITY REQ.
ASCOSTIS EXAKATA / BENTGRASS	4	25
ELYMUS TRACHYCALUS / SLENDER WHEATGRASS	4	25
HOCDELM BACCHANTHERUM / MEADOW BARLEY	4	25
LEYMUS TRITICOIDES / CREEPING WILD RYE	4	25
TOTAL lb	16	100
ELUTHANIA OCCIDENTALIS / GOLDENROD	6	37
CEUTHEREA ELATA / EVENING PRIMROSE	6	37
TOTAL lb	12	74

HABITAT TYPE: SEASONAL FRESHWATER WASH		AREA (sq'ft) 278 AC
Low flow channel & debris retention of debris	PLUGS (TREES/AND) PER ACRE	QUANTITY REQ.
BOTANICAL NAME / COMMON NAME	PLUGS (TREES/AND) PER ACRE	QUANTITY REQ.
JUNCUS EFFRUSUS / SOFT RUSH	75	209
JUNCUS PATENS / COMMON RUSH	75	209
SCORONOPLECTUS ACUTUS OCCIDENTALIS / TULE	100	278
SCORONOPLECTUS ROBUSTUS / STUDY BLUEGRASS	100	278
TYPIA LATIFOLIA / COMMON CATTAIL	100	278
TOTAL PLUGS	450	1252

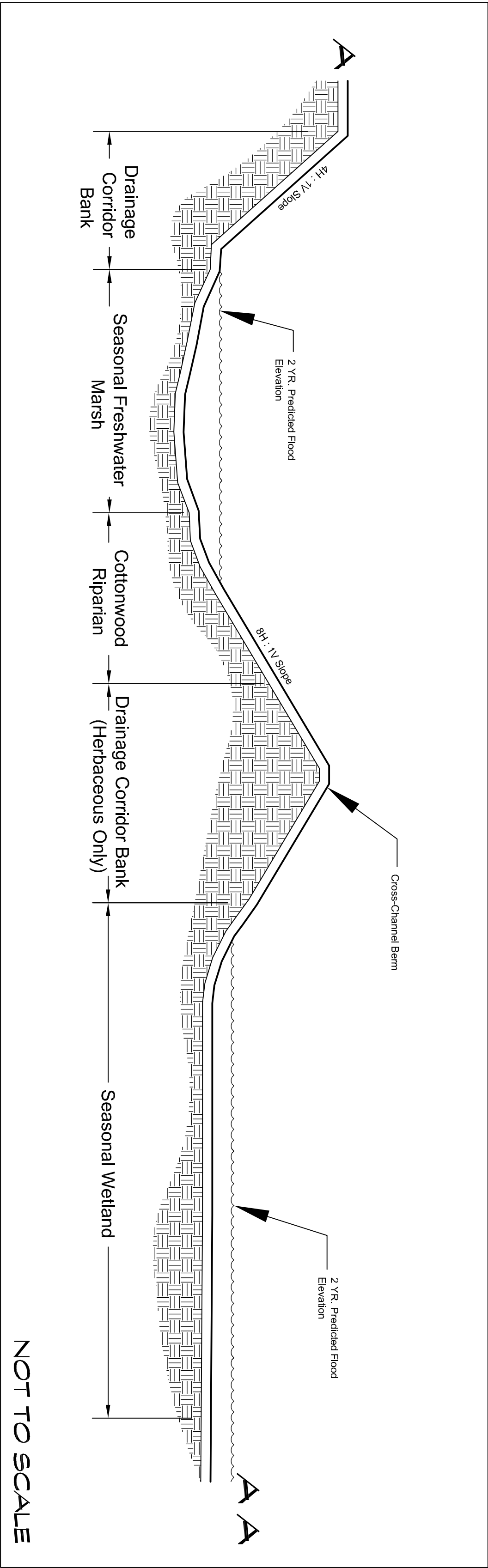


PREPARED BY:
RESTORATION RESOURCES
3888 CINCINNATI AVENUE
ROCKHILL, CA 95065
TEL 916.408.2990
FAX 916.408.2999
www.restoration-resources.net
CA LIC. #428252

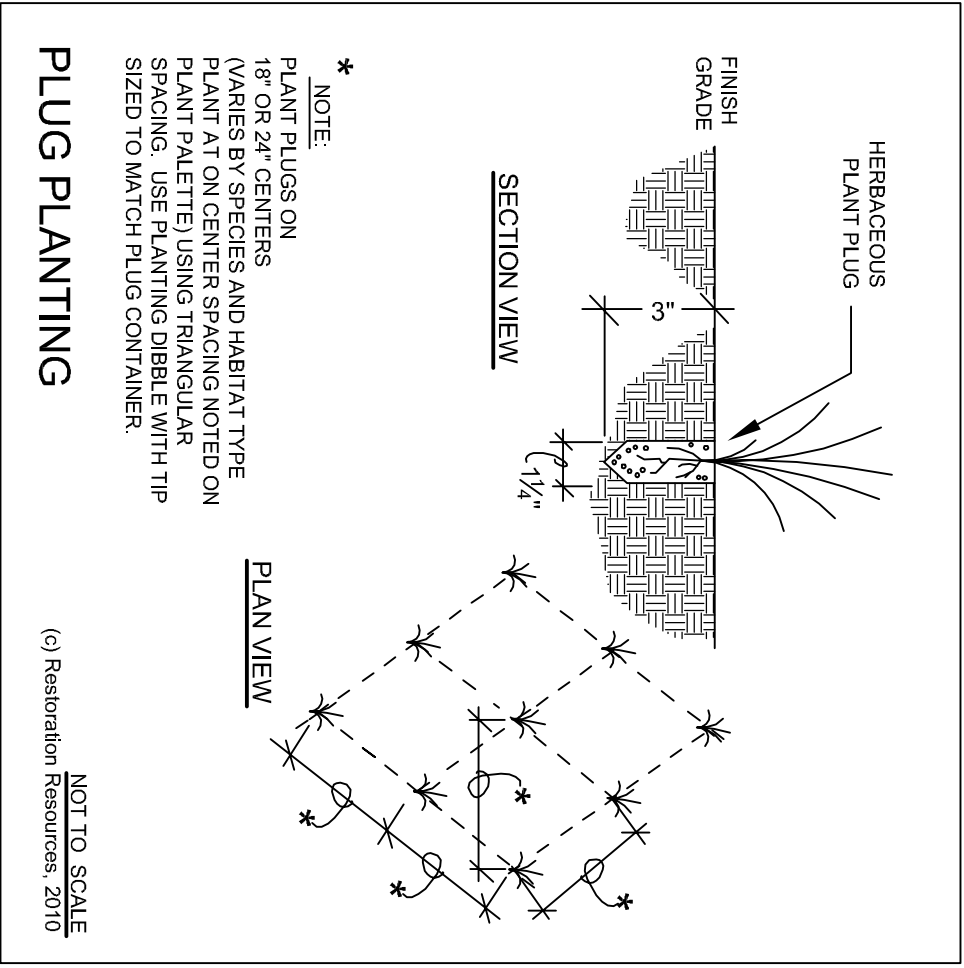
NOT FOR CONSTRUCTION

CLIENT:
The RCH Group
Jeff Parnstein, Project Manager
1640 Lead Hill Blvd., Suite 220
Roseville, CA 95661
TEL 916.782.4427

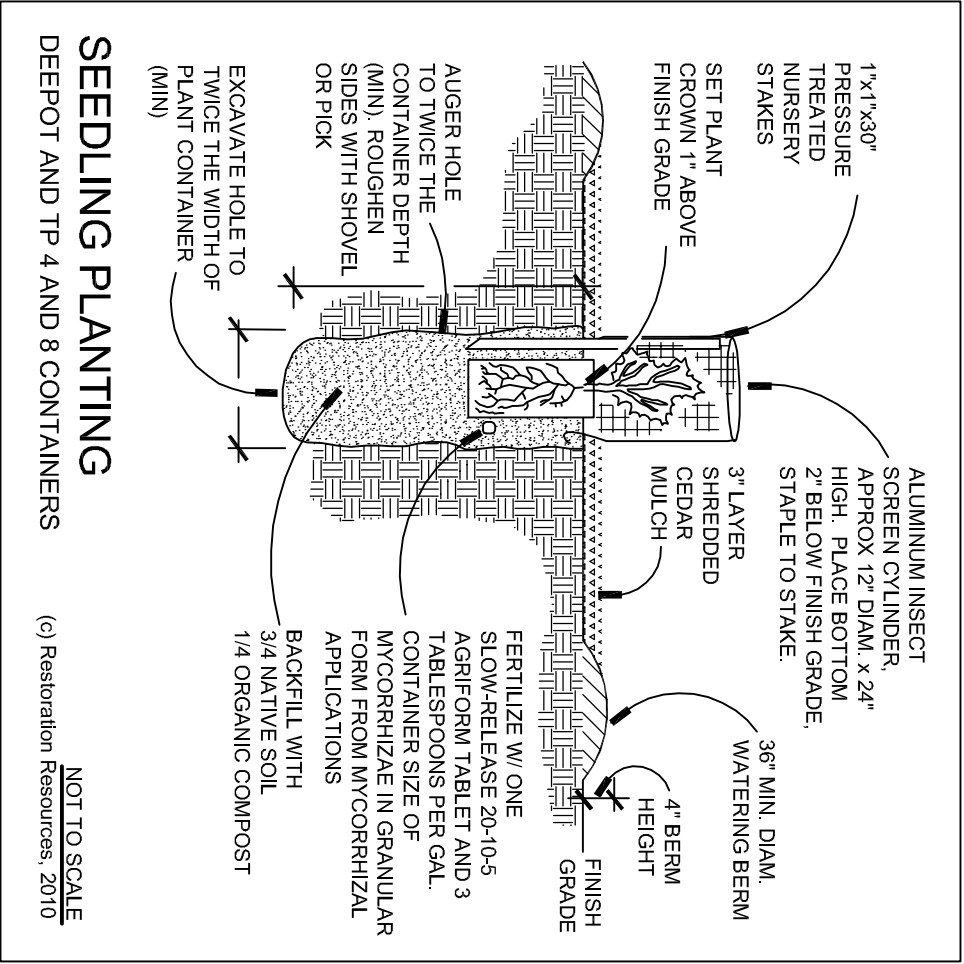
SHEET TITLE:
ELVERTA DRAINAGE CORRIDORS B, C, & D
CONCEPTUAL HABITAT DEVELOPMENT PLAN
Elverta, California
CORRIDOR B, C, & D PLANT PALETTES



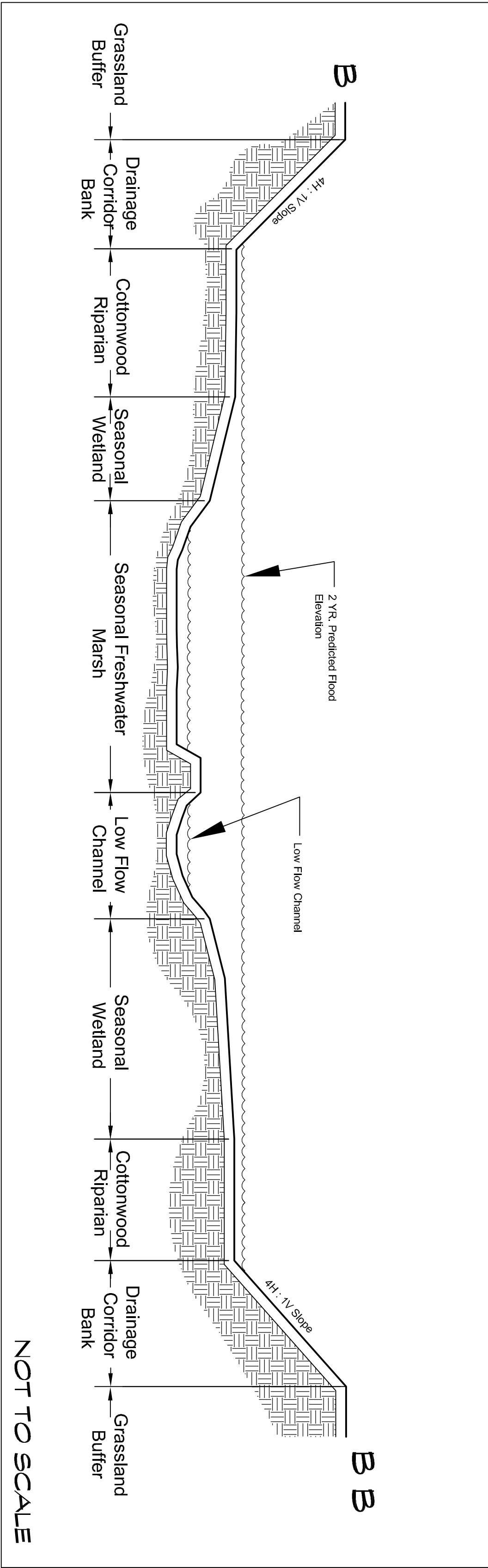
07
L4.3



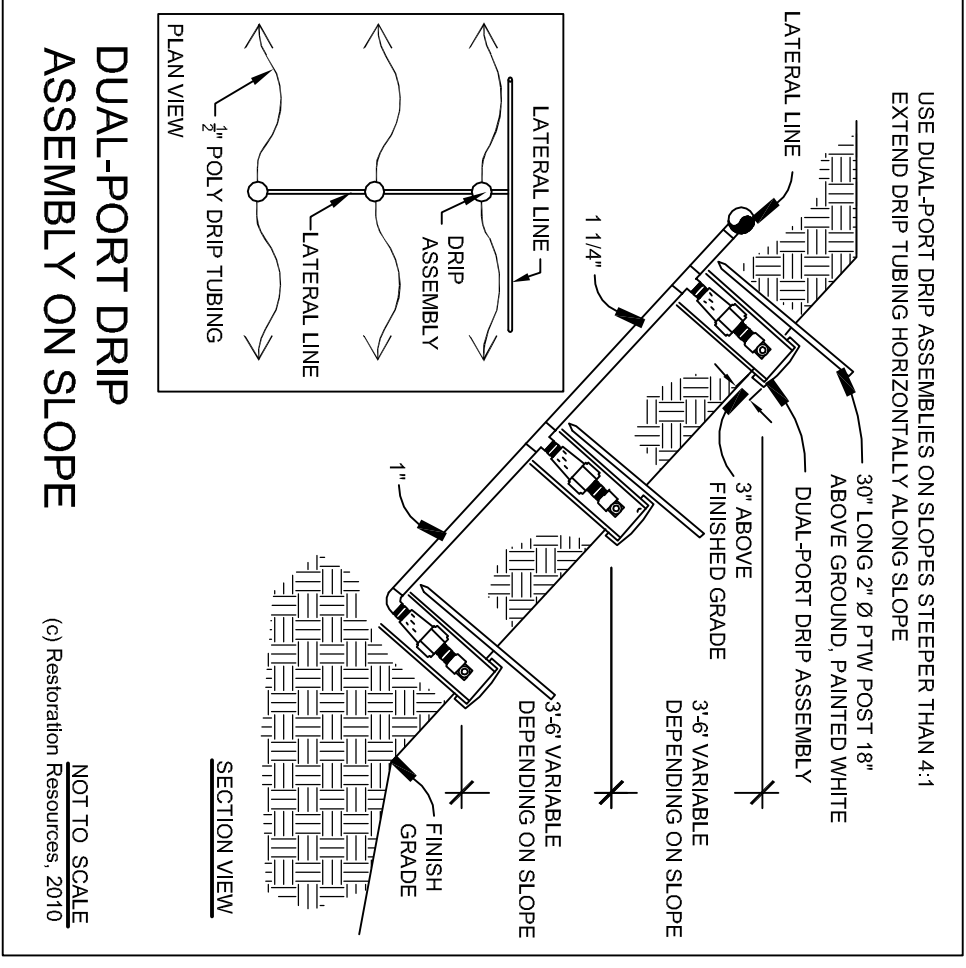
04
L4.3



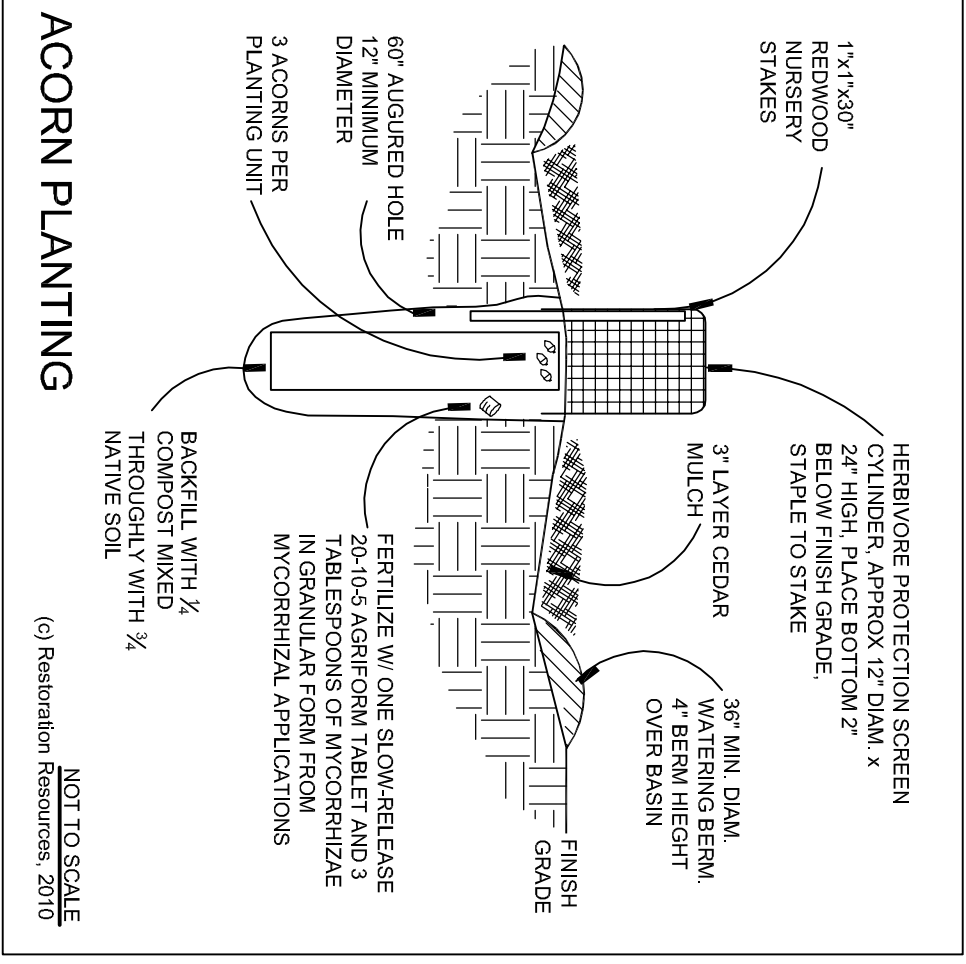
01
L4.3



08
L4.3



05
L4.3



02
L4.3

SECTION B - CORRIDOR D

IRRIGATION FREQUENCY NOTES:

WEEKLY IRRIGATION FREQUENCY WILL FLUCTUATE ON SPECIFIC DATES WITHIN THE REGATION SEASON. WEEKLY IRRIGATION RATES WILL BEGIN WITH ONE APPLICATION PER WEEK STARTING APRIL 9TH AND THROUGH SEPTEMBER 31. APPLICATIONS WILL THEN DECREASE BACK DOWN TO ONE APPLICATION PER WEEK OCTOBER 1 THROUGH OCTOBER 9TH TO CONCLUDE THE REGATION SEASON.

C O R R I D O R B & C

HABITAT TYPE	IRRIGATION TYPE	EMITTERS PER TREE	GPH PER TREE	EMITTERS PER SHRUB & VINE	GPH PER SHRUB & VINE	EMITTERS PER EMITTER	HOURS PER DAY	APPLICATIONS PER WEEK	APPLICATIONS PER WEEK	APPLICATIONS PER WEEK
COTTONWOOD SPARKAN	DRP	3	2	2	1	2	2	1	3	1
DRANAGE CORRIDOR BANK	DRP	2	2	2	1	2	2	1	3	1
WILLOW SPARKAN	HAND WATER	~	~	~	~	~	AS NEEDED	AS NEEDED	AS NEEDED	AS NEEDED

CORRIDOR B & C NOTE

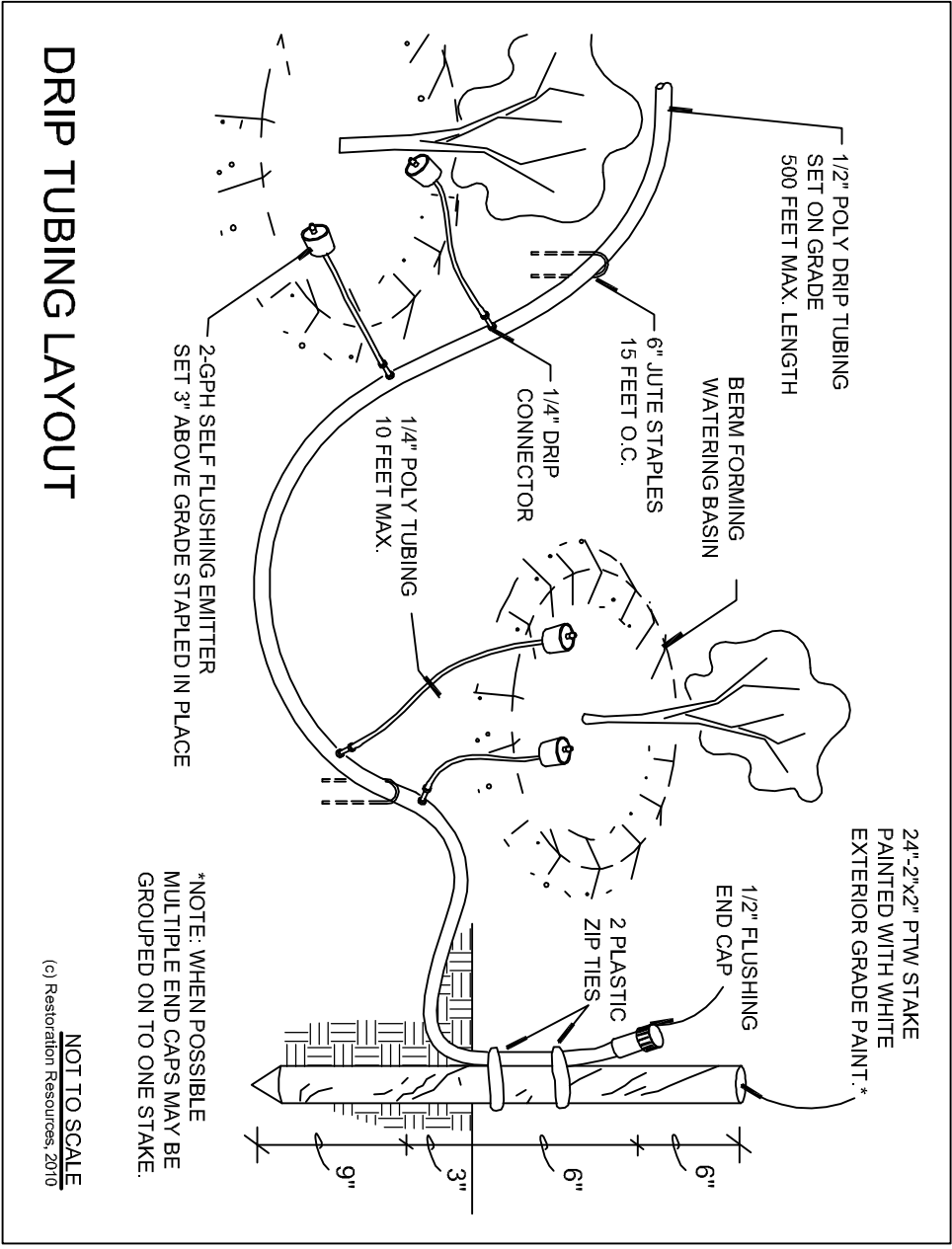
THE DRAINAGE CHANNEL, WET EDGE, SPARKAN, GRASSLAND, SEASONAL FRESHWATER, WETLAND, SEASONAL WETLAND, AND GRASSLAND BUFFER HABITATS SHALL BE PLANTED WITH HERBACEOUS SEEDS AND PLUGS AND SHALL NOT RECEIVE SUPPLEMENTAL WATER DURING THE DRY SEASON.

C O R R I D O R D

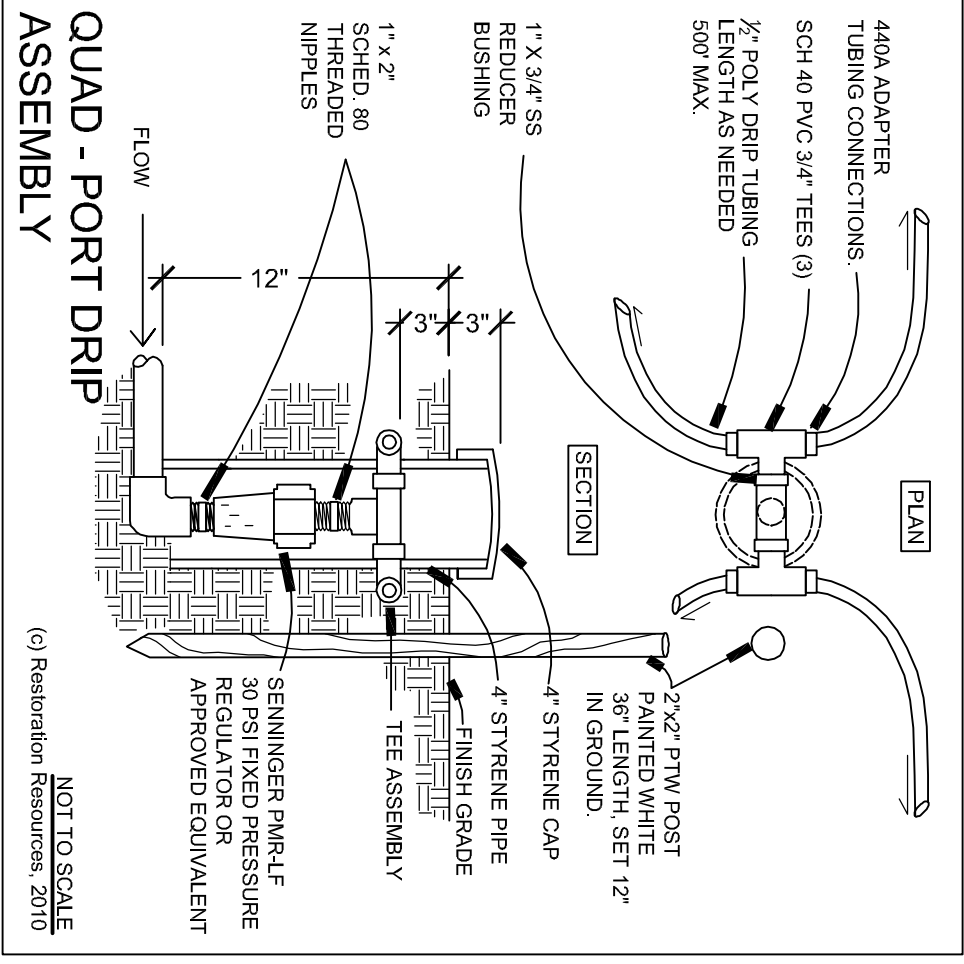
HABITAT TYPE	IRRIGATION TYPE	EMITTERS PER TREE	GPH PER TREE	EMITTERS PER SHRUB & VINE	GPH PER SHRUB & VINE	EMITTERS PER EMITTER	HOURS PER DAY	APPLICATIONS PER WEEK	APPLICATIONS PER WEEK	APPLICATIONS PER WEEK
COTTONWOOD SPARKAN	DRP	3	2	2	1	2	2	1	3	1
DRANAGE CORRIDOR BANK	DRP	2	2	2	1	2	2	1	3	1
OAK SPARKAN	DRP	2	2	2	1	2	2	1	3	1

CORRIDOR D NOTE

THE SEASONAL FRESHWATER, WETLAND, SEASONAL WETLAND, AND GRASSLAND BUFFER HABITATS SHALL BE PLANTED WITH HERBACEOUS SEEDS AND PLUGS AND SHALL NOT RECEIVE SUPPLEMENTAL WATER DURING THE DRY SEASON.



06
L4.3



03
L4.3

SHEET NO:

L4.3

18 of 19

CHECKED BY: 788	DATE: 10月11日
ORIGINAL DATE: 10.28.10	DRAWN BY: LP/MAH
REVISION:	JOS NUMBER: 10029
BY:	DATE:
1. L. P. MAH	10/31/10
2. L. P. MAH	10/31/10
3. L. P. MAH	10/31/10
4. L. P. MAH	10/31/10
5. L. P. MAH	10/31/10
6. L. P. MAH	10/31/10
7. L. P. MAH	10/31/10
8. L. P. MAH	10/31/10
9. L. P. MAH	10/31/10
10. L. P. MAH	10/31/10

SHEET TITLE:

ELVERTA DRAINAGE CORRIDORS B, C, & D
CONCEPTUAL HABITAT DEVELOPMENT PLAN
Elverta, California
CONCEPTUAL SECTIONS & DETAILS

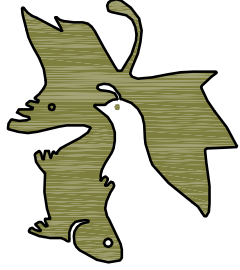
CLIENT:

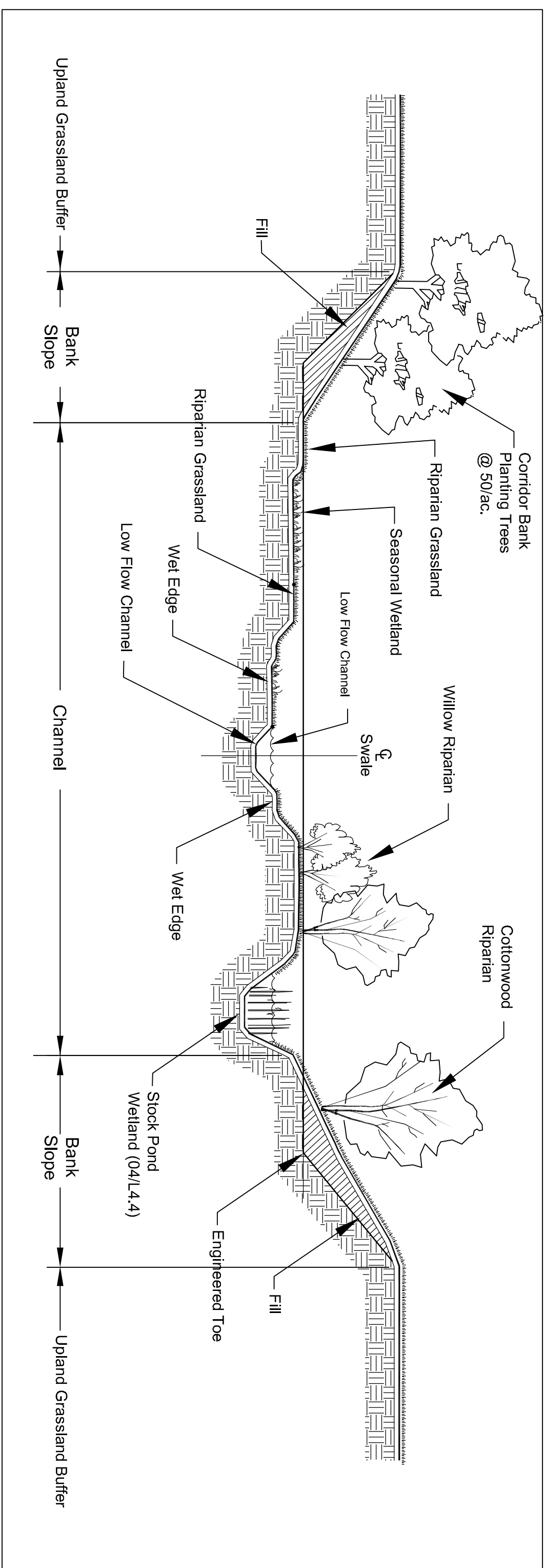
The RCH Group
Jeff Pemstein, Project Manager
1640 Lead Hill Blvd., Suite 220
Roseville, CA 95661
TEL 916.782.4427

NOT FOR
CONSTRUCTION

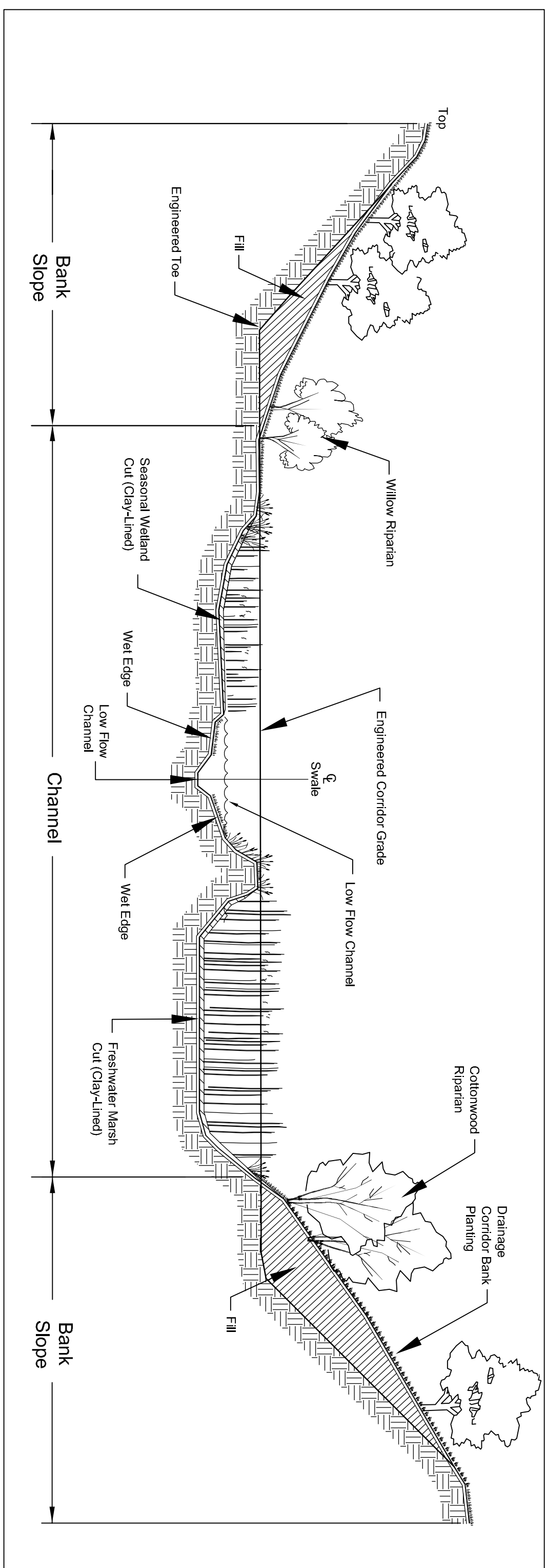
PREPARED BY:

**RESTORATION
RESOURCES**
3888 CINCINNATI AVENUE
ROCKLIN, CA 95765
TEL 916.408.2990
FAX 916.408.2999
www.restoration-resources.net
CA LIC. #429252

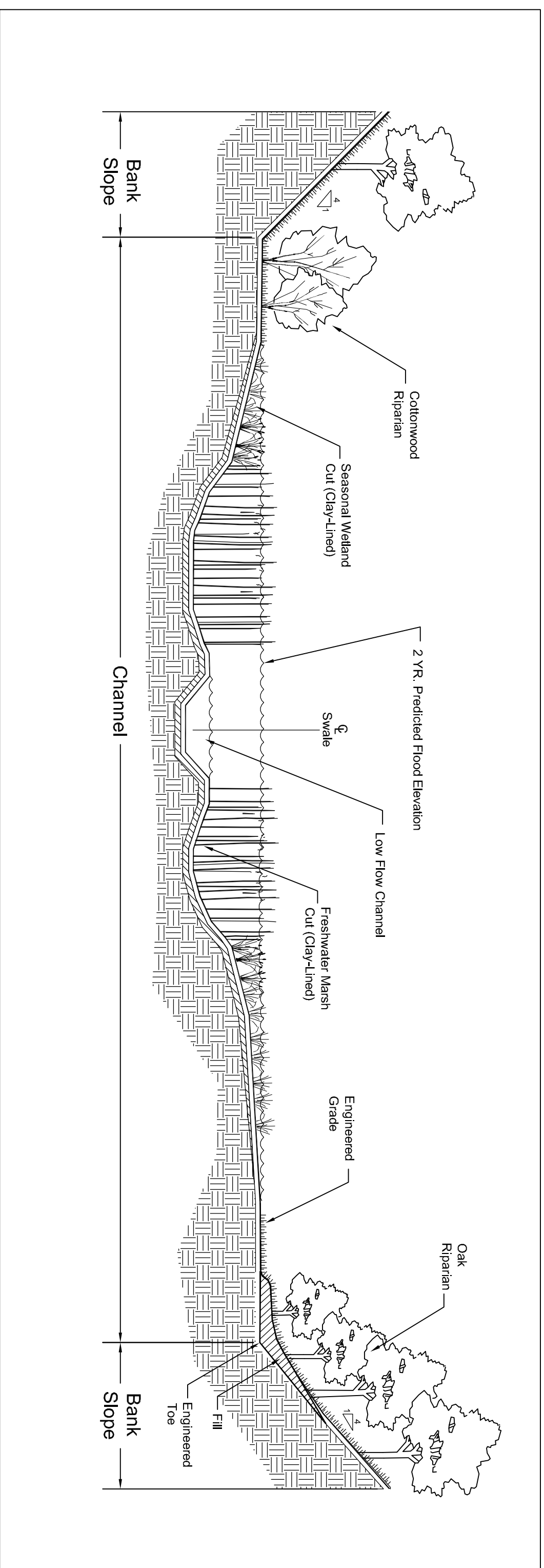




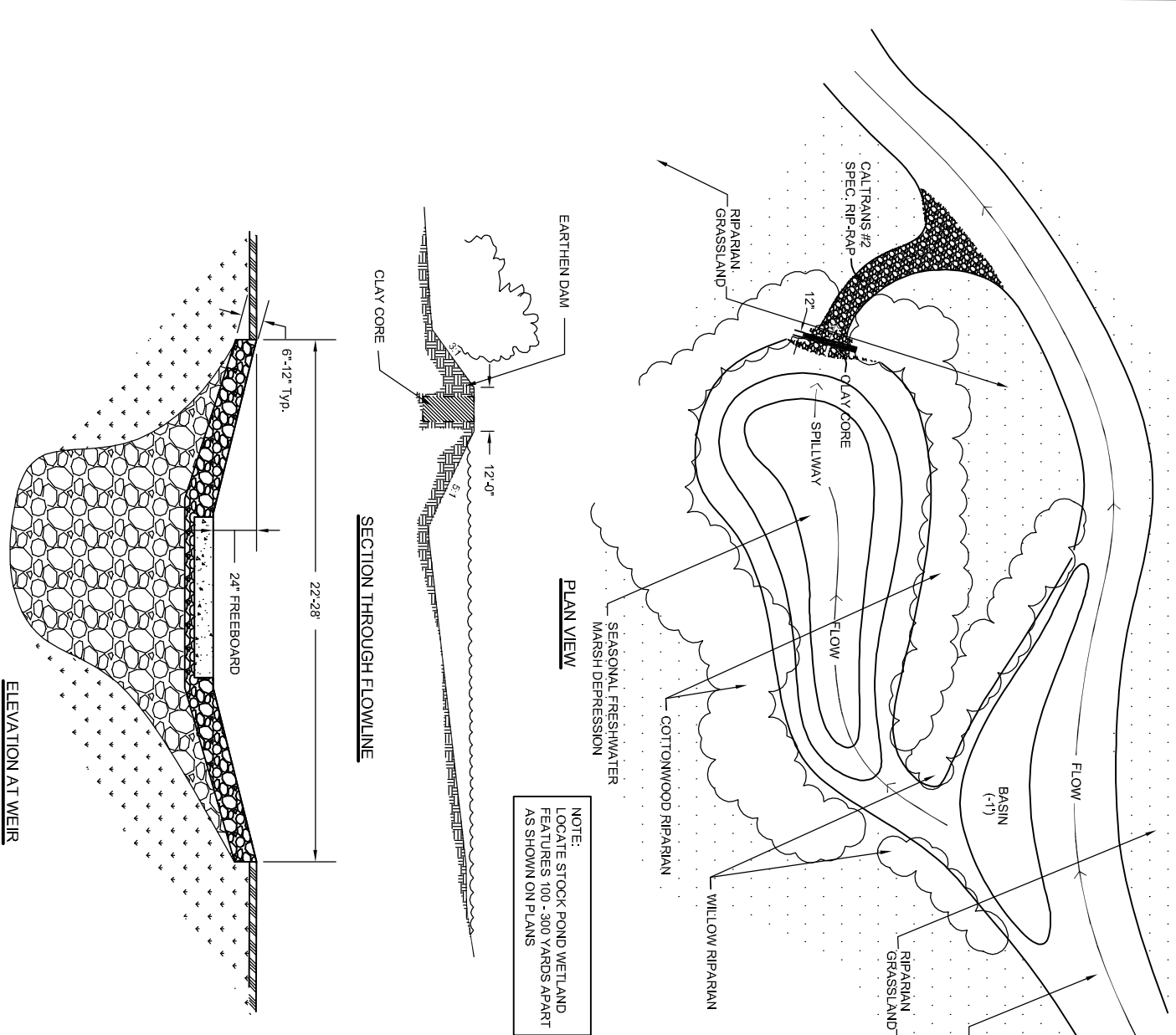
CROSS-SECTION - CORRIDOR



CROSS-SECTION - CORRIDOR

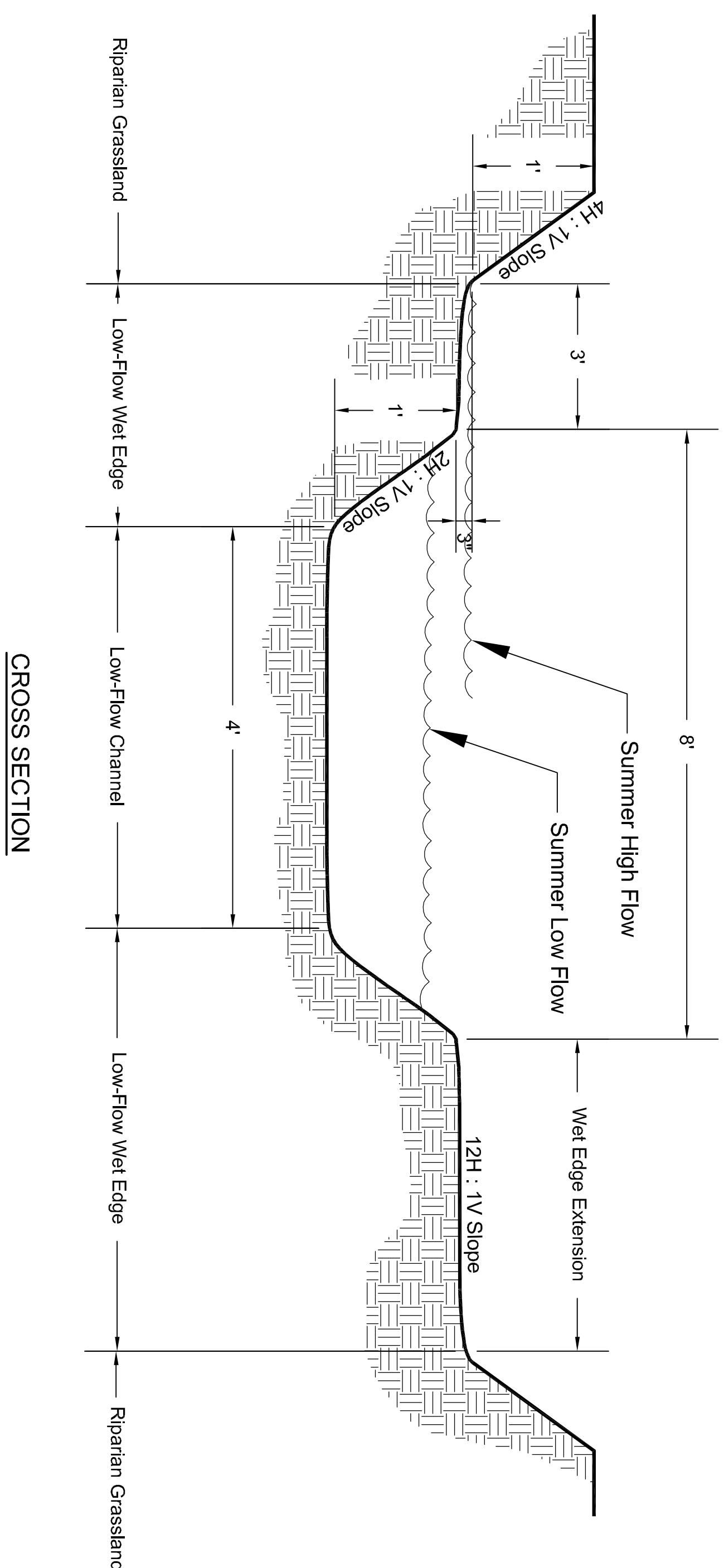


CROSS-SECTION - CORRIDOR



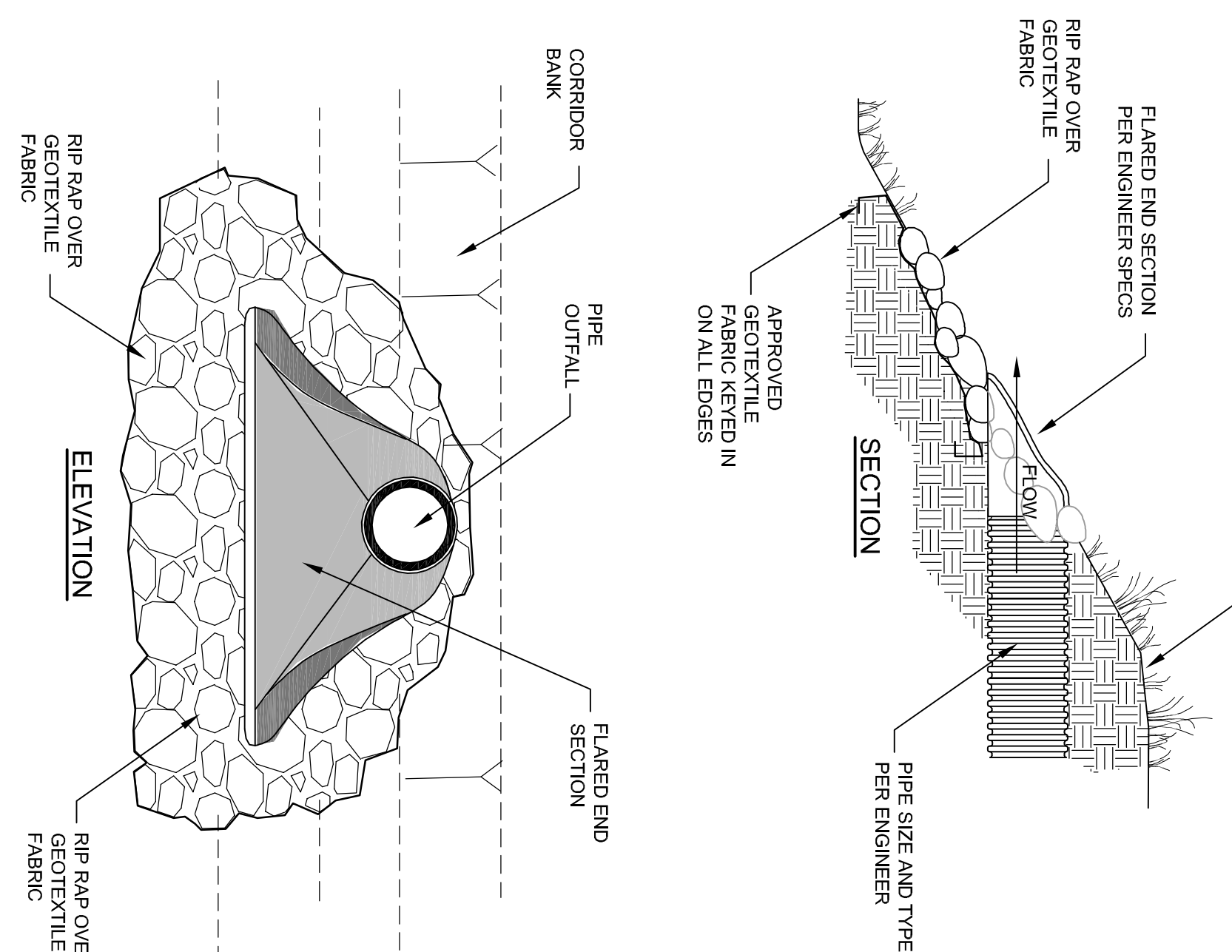
CORRIDOR B TYPICAL
"STOCK POND" WETLAND

NOT TO SCALE



LOW-FLOW CHANNEL AND WET EDGE

NOT TO SCALE
(c) Restoration Resources, 2011



FLARED END OUTLET

NOT TO SCALE
(c) Restoration Resources, 2011

